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# Pollution-Caused Fish Kills in 1968 (9th Annual Report)

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The report is an analysis of pollution-caused fish kills compiled from data supplied by State officials. It includes analytical text and the following tables: major kills, historical summary, summaries by State, source, water body, severity, type of water, month, and duration. Also includes a cumulative listing of the reports received.

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# pollution caused fish kills - 1968

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## ninth annual report

The annual census of fish kills began in June 1960, and since that time a total of 103,380,000 fish have been reported killed in 2,830 incidents.

In 1968 alone, an estimated 15,236,000 fish were reported killed in 42 States by identifiable pollution sources. This was an increase of 3,645,000, or 31 percent, over 1967, when 11,591,000 fish were killed in 40 States.

Of the 438 reports of definite fish kills by pollution, only 379 specified the number of fish killed. Another 107 fish kills were reported, but the causes of these deaths could not be determined, although pollution was suspected in a number of the cases.

Improved reporting practices, variations in weather, or other factors could be partially responsible for the increased number of fish kills reported.

The largest fish kill in 1968 occurred on the Allegheny River at Bruin, Pa., where 4,029,000 fish died. A petroleum refinery company's lagoon overflowed into another pond whose walls broke, releasing chemicals into a stream. Suds 6 feet high were created as the mixture flowed along the stream.

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An inadequate sewage treatment plant at Mobile, Ala., caused the second largest fish kill. Effluent from an overloaded treatment plant lowered the oxygen content in a 2 mile-stretch of Dog River, suffocating 1,023,000 fish. In this same area, 8 other fish kills occurred during the year resulting in the death of 2,716,000 fish. These kills were caused by faulty operated or inadequate treatment facilities.

From its beginning, the annual fish kill census has been the result of teamwork. Without the cooperation of State fish and game officers, conservation organizations, State pollution control agencies, and outdoor writers, the report would not be effective.

This cooperation begins when fishermen, local game wardens, or other citizens spot a fish kill and report it. An accurate and complete account of the incident depends upon prompt investigation by appropriate officials.

Of the 8 States not included in the 1968 fish kill census, Arizona submitted 1 report, but the pollution was caused by unknown bacteria; and the report was not included. Georgia submitted 1 report with the source of pollution not known. Hawaii submitted 4 reports with the pollution source unknown.

There were no reports from these States: Alaska, Delaware, Maryland, Mississippi, and Vermont.

Pollution from municipal sewers and treatment plants replaced industrial wastes as the most deadly type of pollution in 1968. Wastes from cities killed a total of 6,952,000 fish in 122 separate incidents. On the other hand, industrial wastes accounted for the highest number of incidents—177—with 6,398,000 fish killed. These two categories accounted for 88 percent of all the fish killed.

Transport accidents, such as pipeline breaks or leaks, railroad or truck accidents, were the third highest category. They were responsible for 880,000 fish being killed.

"Other operations" ranked fourth in the number of fish killed, with 584,000. This category includes pollutants from such activities as highway construction and

maintenance (including weed control), airport and service station operations, and mosquito control.

The fifth category—agricultural operations—showed a significant decrease in fish killed in 1968. Farming activities were responsible for the death of 422,000 fish in 1968, compared with 1,805,000 in 1967.

The average number of fish that died per fish kill in 1968 was 6,015, a decrease from the average of 6,460 in 1967. The averages are determined after excluding all kills over 100,000 or more as not being typical.

Transportation operations had the highest average kill, with 9,155, while municipal operations were second with 7,585.

Nine percent, or 1,336,000, of the fish killed in 1968 were game species, compared with 1,806,000 game fish killed in 1967. The percentage of fish of commercial value that died rose considerably in 1968. Two-thirds, or 10,003,000, of the fish killed in 1968 were classified as commercial, compared with only 2,510,000 out of 11,591,000 in 1967.

Pollution from malfunctioning, poorly operated, or inadequate municipal sewage treatment plants was responsible for the death of 6,181,873 fish in 97 incidents.

The use of insecticides and herbicides by the various types of operations was linked to the killing of 741,660 fish. Agricultural operations were responsible for a substantial number of these deaths. Fifty-one reports on agricultural activities gave insecticides or herbicides as the cause of the fish kill. Forty-two of these reports showed a specific number of fish killed; they totaled 325,000 fish.

Fish kills in 1968 caused by pollution lasted 2.99 days, on the average, compared with 3.34 days in 1967. The average duration of the fish kills in which all fish died in 1968 was 4.33 days, almost one day longer than the 3.37 days in 1967. By source of pollution, agricultural fish kills lasted the longest—3.77 days, on the average—while "other operations" and transportation averaged almost the same—3.54 and 3.50 days, respectively. Industrial and municipal pollution kills lasted, on the average, 2.62 and 2.61 days, respectively.

Only 29.9 percent of the agricultural fish kills were classified as heavy kills, as against almost half, or 46.2 percent, of the transportation kills.

The following 5 fish kill reports were received too late to be included in the tables: Wahiawa, Hawaii—15,000 fish reported killed; Fallon, Nevada—unknown; Texas—1 report of 100,000 fish killed and a second one of an unknown number; and Florida—7,850 killed in one pollution incident.

Numerous small fish kills caused by pollution go unnoticed or unreported. Significantly large kills often are not included because of the lack of sufficient information as to whether the kills were produced by pollutants or natural causes. It is difficult and often impossible to determine the actual cause of a kill.

Although the annual census of fish kills cannot be considered complete, the report pinpoints pollution problems and alerts the public as well as officials to the importance of safeguarding our water resources by keeping dangerous substances out of them.

# highlights from the reports

Crop poisoning by airplane apparently killed 45,345 fish.

Liquid rotenone used for fish eradication in drainage ditches surrounding minnow farm killed 1,000 fish.

Investigation points to suspect using endrin at rate of one gallon per acre to spray 15-acre tomato field bounded by creek and a drainage ditch for an artesian well, which also drains into creek. 10,000 fish were killed.

Copper sulphate applied to control algae in a ditch caused the death of 600 fish. Game fish killed were brown trout.

Pollution believed to have been caused by swimming pool being drained at resort. Pool was cleaned with muriatic acid and then drained into creek killing 125 fish.

Discharge of zinc cyanide from plating room of a chain company caused the death of 150 fish. 200 frogs and tadpoles 3"–9" were also killed.

Construction company installing pipeline for city water department treated pipe with chlorine and flushed it into nearby creek. More than 1,200 fish were killed.

There was a slight oil slick on the water surface. Orange grove crews were using the lake to wash and refill their spray tanks. Large barrels of Ethion were lying about the shoreline in pools of the spilled oil. 45,000 fish were killed.

The discharge of dairy waste into water led to the death of 53,000 fish valued at over $1,100. Principal fish killed were minnows.

Some 5,000 rainbow and brook trout in private pond slowly died a few days after the application of carbine herbicide to adjoining field. The eyes of the fish were white prior to death. The fish gasped and struggled at the surface before succumbing. Oxygen samples taken at the time the fish were dying were analyzed, and the water had 8 parts per million of oxygen. This is more than a sufficient amount of oxygen in water.

Accidental break in an underground pipeline killed 25,884 fish valued at $572.51.

Estimated number of fish killed was low due to ice cover on water.

The discharge of acid water from waste piles of coal shaft mine was responsible for killing 14,400 fish. Estimated dollar loss of fish life $1,940.

Break in ⅜-inch pressure gauge line at an oil company's pumping station permitted the escape of an estimated 50,000 gallons of petroleum products which collected in a depression on company property until heavy rains and a general thaw enabled the petroleum to enter a tributary of a creek. The company built straw dams, but these proved largely ineffectual because of the high water. 6,700 fish were killed.

Leak of wash water containing caustic soda and sulphuric acid occurred at a steel company resulting in death of 5,060 fish. Most were panfish.

Drainage from old strip mines and an old deep mine killed 1,000 fish. Pollutant was not identifiable, but the banks and rocks were covered with iron deposits.

About 5,000 fish were killed by discharge of pulp and paper waste products into river. Oxygen content less than 1 part per million. Temperature 80°F–81°F.

Mechanical failure of lift pump that elevates sewage into lagoons resulted in sewage being directly bypassed to stream, causing oxygen depletion. 50 fish were killed.

Chicken manure was bulldozed from hatchery house of a poultry farm after a water line in the house broke, causing the manure to be reduced to a fluid state. The liquid drained into a stream, killing 334 fish.

Pollution was first reported to the State department of health because of the contamination of a spring. 2,261 dead fish were not discovered until the ice melted on the pond. Subsecuent investigation and tests brought to light a leak in the bottom of an 8,000 gallon oil tank installed at a school. Situation may have existed all winter but the weather prevented earlier detection.

Sheep were dipped in "Copper Tox" solution (emulsified toxaphene concentrate). Solution was dumped on the ground and drained into the stream killing 1,418 fish. In addition to complete fish kill, all aquatic life was destroyed. A dead rabbit, a dead bird, and a seriously ill water snake were also found on the scene.

Accidental break in the circulation lines of an ice company caused 3,150 fish to be killed.

Two drums of untreated cyanide water were spilled on property of a chemical company, and the substance flowed into a brook, killing 1,000 fish. Company was prosecuted and fined.

When farmer rinsed his spray tank after spraying hay, a valve in the bottom of the tank was accidentally left open, and about a gallon of spray drained into stream. (Mixture of xylene, methoxychlor, malathion 00, DDT.) 303 fish were killed.

Fuel tank at oil bulk station sprang a leak during weekend and was not discovered until Monday morning. Corrective measures were taken, but the ground beneath the tank was saturated with oil, and this drained into small stream killing 550 fish.

Faulty valve on a tank truck permitted approximately 20 gallons of sulfuric acid to be spilled during unloading operations at a paper mill company. Acid drained into stream, killing 2,000 fish, and also destroyed aquatic insects and bottom life.

A detergent discharged from a chemical laboratory was definitely determined to have caused the destruction of 336 fish reported killed, although the figure is believed to have been much higher. Not only was all aquatic life in the damage zone destroyed, but domestic waterfowl as well. The trout killed had been only recently stocked in anticipation of opening day of the trout season.

New lagoon on the premises of a metal corporation is leeching large quantities of acid neutralization material into stream. Water was brownish in color in the damage zone, and the bottom was coated with brown residue. 1,095 fish were killed.

Runoff from sprinkling slag at a cement mixing site killed 1,488 fish, and damaged other aquatic life and the stream bed. The company responsible for the discharge paid for the fish that were killed.

Methyl and ethyl parathion from a crop dusting plane drifted to ponds, killing 10,000 fish.

Sewage waste backed up into a pond from treatment plant. Enriched water depleted oxygen, and 1,500 fish died.

Power plant (stream generator) boilers were reported to have been cleaned and then dumped. Four days after the incident, about 25 rough fish were found dead in one-half mile stretch along stream side. Undoubtedly this represented only a portion of the total of 100 to 200 fish that were reported killed. Trout were also reported in the kill.

Discharge of 6,000 gallons of no. 1 fuel oil, allegedly by vandals, killed 1,000 fish. Toxic substance contained in fuel oil was soluble in water.

Yellow substance flowing from settling ponds of an industrial plant into the stream killed 400 fish. The company was subsequently prosecuted and fined when the pollutant (chromium, hexavalent, and aluminum.) was identified.

Vats at an old tannery were broken open by a bulldozer, and the liquid used to tan hides was permitted to flow into the stream. Pollutant entered the stream at about 20 gallons per minute and moved very slowly downstream, killing all marine life immediately, including all bottom life. 6,714 fish died.

Muskrat dug a hole through a dike separating the waste pool from the stream, allowing the waste to enter stream. Prompt action by a fruit canning company could have prevented the fish kill. 5,054 fish were killed.

Black liquor or spent caustic which entered a stream following a breakdown in paper plant operations resulted in 1,200 fish being killed. Company was prosecuted and fined for the fish loss.

Chlorine being used in a private swimming pool nearby a stream escaped into the stream, causing the death of 577 fish. Other aquatic life in the stream was also destroyed.

Cyanide released into stream from a steel mill during a banking operation on a blast furnace killed 10,854 fish.

Canning plant wastes were overloading a municipal sewage treatment plant. Flow in excess of the designed capacity of the plant was bypassed to stream untreated, killing 3,020 fish. Sewage treatment plant improvements and industrial waste treatment facilities are under construction.

Some 460 gallons of an alkyd base paint was spilled at a chemical company. The paint entered a stream via a storm drain. Material has a high oxygen demand and depleted the oxygen content of the stream, with the result that 140 fish were killed.

Filter system at a pressure station on a pipeline was cleaned with Clorox. The discharge went through the station's sump and into a stream, killing 2,000 fish. The company was prosecuted.

Gasoline escaping from break in a pipeline flowed into a tributary of a creek and then into the main stream, killing all marine life in its path. The casualties included frogs, crayfish, salamanders, and muddlers and 62,033 fish. Efforts are being made to recover damages for the fish killed.

In transferring fuel oil from a storage tank to a tank truck, the oil spilled into a sump pump and then drained to small stream. The oil killed all minnows in stream, thus destroying the source of fish bait for many fishermen. Company responsible was prosecuted and fined. 5,000 fish were killed.

During construction of a fire escape, a front-end loader, loaded with concrete, was driven into a stream, and then driven to five piers being built on the bank. Concrete was spilled into the stream, and evidence points to the loader being cleaned in the stream. Five feet above the job live fish were observed. 2,205 fish were killed below the site.

Condenser failure in an experimental laboratory at a refrigeration equipment plant discharged ammonia into a storm sewer. Ammonia flowed into a stream, killing 2,397 fish.

Bulldozer owned by a power line erection company tore open an 8-inch pipeline, causing fuel oil to flow into a stream. Water flow was very low. 375 fish were killed.

Excessive amounts of chemical dispersant were used to remove heating oil, killing 100 fish.

Apparently heavy rains scoured industrial and municipal effluents from creek and brought about a low dissolved oxygen slug in the fork of the river, killing 28,900 fish.

Municipal sewage was bypassed to a stream during the period an interceptor was relocated to permit the construction of a new bridge. This resulted in oxygen depletion in the stream, killing 266 fish.

Tank trucks hauling chemicals were washed out and liquid waste entered creek giving the water a red color. Material killed snakes, frogs, snails, and insects in addition to 1,192 fish.

Fuel hose was severed by a locomotive, and 8,500 gallons of diesel oil escaped to a stream, killing 2,864 fish.

Stove oil from a break in a pipeline killed 50,000 fish. The kill took place in about 10 miles of stream and partial kill in an additional 5 miles of stream. This oil (similar to diesel fuel) killed the weeds along the banks of the stream for 6 miles. Frogs, crayfish, tadpoles, snakes, and horseflies were also seen dead in the upper portion of the damage area.

Caustic cleaner, used to wash down motors at a truck terminal, was flushed into a storm sewer instead of the sanitary sewer system, killing 3,272 fish.

Quantity of endrin was washed into a run from a nearby orchard which had been sprayed. Residents in the area had seen dead fish on several previous occasions, and it appears that there were few fish present to be killed. 12 fish were killed. The orchard owners had been prosecuted previously for the same type of pollution.

Operator of a poultry-slaughtering farm emptied lagoons to free a mired tractor, with the result that 425 fish were killed. Legal proceedings against company begun.

Drainage from a solid waste disposal operation killed 150 fish. The State department of public health took action to require the city to correct the problem.

Diversion gate on a drain failed, causing overflows containing cyanide from city sewerage system. The city immediately took steps to replace the gate. 500 fish were killed.

Two gallons of malathion-dieldrin insecticide were passed through a trickling filter to kill filter flies. 500 fish were killed downstream.

Drainage from the largest completed automated chicken egg plant in the world entered stream and killed all fish. 490 fish died.

When meat-packing and slaughterhouse plant was closing down operations—dismantled refrigeration unit—anhydrous ammonia refrigerant was released into plant sewer and flushed with water into river. 250,000 fish were killed.

Barge lost some heavy crude oil which lodged under docks. An emulsifier was used to clean out the oil and prevent a fire hazard. 500 fish were killed.

Organic matter discharged by a corporation into bottom of lake near dam killed 176,000 fish. Material came through turbines, causing large drop in oxygen in river below dam.

Oil tank car overturned in railroad wreck and spilled its contents into stream. The stream flows through a commercial fish hatchery; 177,000 fish were killed. Railroad involved paid the hatchery operator for all fish destroyed. The company also took steps to clean up the oil from the banks of the stream.

Underground salt water deposits emptied into river, killing 180,000 fish. Fish kill occurred approximately 7 days prior to investigation.

## MAJOR KILLS—100,000 OR OVER

| LAKE OR STREAM | NEAR OR IN | NUMBER OF FISH | OPERATION |
|---|---|---|---|
| Allegheny River | Bruin, Pennsylvania | 4,028,884 | Petroleum |
| Dog River | Mobile, Alabama | 1,023,367 | Sewerage system |
| Des Moines River | Des Moines, Iowa | 1,000,000 | Sewerage system |
| Dog River | Mobile, Alabama | 650,000 | Sewerage system |
| Dog River | Mobile, Alabama | 463,063 | Sewerage system |
| Dog River | Mobile, Alabama | 396,836 | Sewerage system |
| Industrial Canal-Three Mile Creek | Mobile, Alabama | 378,000 | Sewerage system |
| Dog River | Mobile, Alabama | 358,000 | Sewerage system |
| Dog River | Mobile, Alabama | 343,711 | Other |
| Dog River | Mobile, Alabama | 289,404 | Sewerage system |
| Sandusky River | Sandusky Co., Ohio | 250,585 | Thermal |
| Boise River | Boise, Idaho | 250,000 | Food products |
| Timnath Lake & Ditch | Timnath, Colorado | 250,000 | Water system |
| Dog River | Mobile, Alabama | 220,000 | Sewerage system |
| Horseshoe Lake | Granite City, Illinois | 211,872 | Chemicals |
| Little Arkansas River | Valley Center, Kansas | 206,000 | Other industrial |
| Dog River | Mobile, Alabama | 198,545 | Other |
| W. Br. Huron River | Huron Co, Ohio | 195,426 | Petroleum |
| Shy Beaver Creek & Raystown Br. Juniata River | Cherryton, Pennsylvania | 193,794 | Pipeline transportation |
| Muskingum River | Muskingum Co, Ohio | 186,068 | Paper products |
| Licking River | Licking Co, Ohio | 184,763 | Metals |
| Cimarron River | Perkins, Guthrie, Oilton, Coyle, Oklahoma | 180,000 | Pipeline transportation |
| Crooked Run | Ferndale, Pennsylvania | 177,000 | Rail transportation |
| Cumberland River | Nashville, Tennessee | 176,000 | Chemicals |
| Dog River | Mobile, Alabama | 175,215 | Sewerage system |
| Dog River | Mobile, Alabama | 163,620 | Sewerage system |
| Industrial Canal-Three Mile Creek | Mobile, Alabama | 146,500 | Sewerage system |
| Dog Run | Mobile, Alabama | 135,243 | Sewerage system |
| Appomattox River | Petersburg, Virginia | 101,463 | Sewerage system |
| Big Sioux River | Sioux City, Iowa & South Dakota | 100,000 | Poisons |
| James River | Chesterfield Co, Virginia | 100,000 | Sewerage system |

## 1—Historical summary of pollution-caused fish kills, June 1960—December 1968

| JUNE-DECEMBER | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 |
|---|---|---|---|---|---|---|---|---|---|
| Number of States reporting | 36 | 45 | 37 | 38 | 40 | 44 | 46 | 40 | 42 |
| Number of reports | 286 | 411 | 381 | 436 | 485 | 531 | 436 | 375 | 438 |
| Reports which state number of fish killed | 149 | 263 | 233 | 300 | 385 | 446 | 372 | 303 | 379 |
| Total estimated number of fish killed** | 6,379,000* | 15,910,000* | 7,118,000* | 7,860,000 | 18,387,000 | 11,784,000 | 9,115,000 | 11,591,000 | 15,236,000** |
| Average size of kill *** | 2,925 | 6,535 | 5,710 | 7,775 | 5,490 | 4,310 | 5,620 | 6,460 | 6,015 |
| Largest kill reported | 5,000,000 | 5,387,000 | 3,180,000 | 2,000,000 | 7,887,000 | 3,000,000 | 1,000,000 | 6,549,000 | 4,029,000 |
| Reports where extent of area affected was stated | | | | | | | | | |
| River | | | | | | | | | |
| Number of reports | 189 | 240 | 259 | 271 | 339 | 292 | 251 | 219 | 264 |
| Miles of stream | 1,204 | 1,686 | 1,448 | 2,203 | 1,440 | 1,300 | 989 | 1,039 | 1,565 |
| Lakes and reservoirs | | | | | | | | | |
| Number of reports | 25 | 50 | 25 | 49 | 57 | 38 | 46 | 33 | 37 |
| Acres affected | 1,407 | 5,967 | 2,581 | 5,644 | 12,637 | 4,630 | 21,564 | 1,996 | 2,400 |
| Average duration of kill in days | 2.85 | 2.84 | 2.59 | 3.18 | 2.44 | 2.57 | 2.71 | 3.34 | 2.99 |

* After adjustment for reports giving two or more causes.
** Includes all fish killed as reported plus an allowance computed for reports which do not indicate the number of fish that died.
*** Derived after excluding 31 reports of 100,000 kills or more as being unrepresentative.

## 2—Fish kill summary by source of pollution

| SOURCE OF POLLUTION | TOTAL REPORTS | REPORTED FISH KILLED | | AVERAGE KILL* | ESTIMATED FISH KILLED** | | | |
|---|---|---|---|---|---|---|---|---|
| | | NUMBER OF REPORTS | NUMBER OF FISH | | TOTAL | GAME | NONGAME | COMMERCIAL |
| Agricultural operations | 77 | 66 | 375,548 | 4,240 | 422,000 | 152,000 | 270,000 | 277,000 |
| Industrial operations | 177 | 152 | 6,255,713 | 5,675 | 6,398,000 | 415,000 | 5,983,000 | 2,349,000 |
| Municipal operations | 122 | 108 | 6,791,464 | 7,585 | 6,952,000 | 320,000 | 6,632,000 | 6,558,000 |
| Transportation operations | 39 | 33 | 825,365 | 9,155 | 880,000 | 430,000 | 450,000 | 244,000 |
| Other operations | 23 | 20 | 578,124 | 1,995 | 584,000 | 19,000 | 565,000 | 575,000 |
| Total | 438 | 379 | 14,826,214 | 6,015 | 15,236,000 | 1,336,000 | 13,900,000 | 10,003,000 |

* Derived after excluding 31 reports of 100,000 kills or more as being unrepresentative.
** Includes all fish killed as reported plus an allowance computed for reports which do not indicate the number of fish that died.

## 3—Pollution-caused fish kill summary by State

| STATE | TOTAL REPORTS | REPORTED FISH KILLED | | EXTENT OF DAMAGE | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | RIVER | | LAKE | | SHORE | |
| | | NO. OF REPORTS | NO. OF FISH | NO. OF REPORTS | MILES | NO. OF REPORTS | ACRES | NO. OF REPORTS | MILES |
| Alabama | 28 | 28 | 5,211,703 | 24 | 84 | 1 | 16 | — | — |
| Arkansas | 16 | 8 | 74,345 | 3 | 18 | 6 | 46 | 1 | 2 |
| California | 14 | 14 | 31,255 | 10 | 36 | 2 | 9 | — | — |
| Colorado | 2 | 2 | 250,075 | — | — | 1 | 1 | 1 | 8 |
| Connecticut | 11 | 11 | 37,150 | 8 | 9 | — | — | — | — |
| Florida | 4 | 3 | 45,800 | 1 | 1 | 1 | 2 | — | — |
| Idaho | 2 | 2 | 255,000 | 1 | 15 | 1 | 8 | — | — |
| Illinois | 9 | 9 | 362,680 | 8 | 40 | 1 | 1,187 | — | — |
| Indiana | 13 | 9 | 12,119 | 11 | 95 | — | — | — | — |
| Iowa | 6 | 6 | 1,068,700 | 6 | 109 | — | — | — | — |
| Kansas | 12 | 12 | 368,000 | 12 | 91 | — | — | — | — |
| Kentucky | 4 | 1 | 5,000 | 4 | 26 | — | — | — | — |
| Louisiana | 4 | 4 | 10,750 | 4 | 24 | — | — | — | — |
| Maine | 4 | 3 | 17,000 | 4 | 11 | — | — | — | — |
| Massachusetts | 6 | 2 | 1,100 | 1 | 5 | 2 | 90 | — | — |
| Michigan | 12 | 11 | 21,607 | 1 | 1 | — | — | — | — |
| Minnesota | 10 | 6 | 6,900 | 9 | 99 | — | — | — | — |
| Missouri | 15 | 11 | 16,384 | 14 | 47 | 1 | 3 | — | — |
| Montana | 1 | — | — | — | — | — | — | — | — |
| Nebraska | 7 | 5 | 7,050 | 2 | 27 | 2 | 10 | — | — |
| Nevada | 1 | 1 | 2,000 | — | — | 1 | 1 | — | — |
| New Hampshire | 4 | 3 | 3,400 | 1 | 1 | 2 | 51 | — | — |
| New Jersey | 8 | 8 | 53,650 | 6 | 11 | 2 | 18 | — | — |
| New Mexico | 2 | 2 | 13,000 | 2 | 12 | — | — | — | — |
| New York | 11 | 9 | 21,105 | 10 | 14 | — | — | — | — |
| North Carolina | 7 | 7 | 26,500 | 7 | 71 | — | — | — | — |
| North Dakota | 1 | 1 | 500 | 1 | 7 | — | — | — | — |
| Ohio | 66 | 66 | 1,112,277 | — | — | — | — | — | — |
| Oklahoma | 7 | 6 | 189,550 | 2 | 91 | 4 | 28 | — | — |
| Oregon | 7 | 5 | 5,450 | 5 | 16 | 1 | 7 | — | — |
| Pennsylvania | 53 | 52 | 4,542,374 | 50 | 196 | 2 | 14 | — | — |
| Rhode Island | 2 | 2 | 5,300 | — | — | 1 | 250 | — | — |
| South Carolina | 2 | 2 | 64,609 | 2 | 34 | — | — | — | — |
| South Dakota | 3 | 2 | 105,000 | 3 | 20 | — | — | — | — |
| Tennessee | 16 | 11 | 312,268 | 9 | 59 | 1 | 1 | 2 | 15 |
| Texas | 30 | 18 | 57,573 | 14 | 150 | 2 | 574 | 2 | 3 |
| Utah | 5 | 5 | 11,418 | 1 | 7 | — | — | — | — |
| Virginia | 17 | 16 | 336,759 | 14 | 50 | 2 | 87 | — | — |
| Washington | 3 | 3 | 79,052 | 2 | 4 | 1 | 2 | — | — |
| West Virginia | 7 | 7 | 70,800 | 5 | 56 | — | — | — | — |
| Wisconsin | 6 | 5 | 10,761 | 6 | 26 | — | — | — | — |
| Wyoming | 1 | 1 | 250 | 1 | 2 | — | — | — | — |
| Total | 438 | 378 | 14,826,214 | 264 | 1,565 | 37 | 2,400 | 8 | 28 |

* Duplicate report submitted by Iowa and South Dakota was reported under South Dakota in the above listing.
NOTE—Eight States not included either because they did not submit a report or their reports did not identify source of pollution.

## 4—Fish kill summary by source of pollution

| SOURCE OF POLLUTION | TOTAL REPORTS | REPORTED FISH KILLED | |
|---|---|---|---|
| | | NUMBER OF REPORTS | NUMBER OF FISH |
| **AGRICULTURAL** | | | |
| Insecticides, poisons, etc. | 51 | 42 | 325,194 |
| Fertilizers | 5 | 5 | 15,116 |
| Manure-silage drainage | 21 | 19 | 35,238 |
| **Subtotal** | 77 | 66 | 375,548 |
| **INDUSTRIAL** | | | |
| Mining | 21 | 20 | 82,657 |
| Food and kindred products | 35 | 28 | 450,074 |
| Paper and allied products | 8 | 8 | 203,329 |
| Chemicals | 39 | 33 | 731,881 |
| Petroleum | 22 | 18 | 4,272,962 |
| Metals | 18 | 17 | 252,598 |
| Combinations | 3 | 3 | 3,200 |
| Others | 31 | 25 | 259,012 |
| **Subtotal** | 177 | 152 | 6,255,713 |
| **MUNICIPAL** | | | |
| Sewerage systems | 97 | 86 | 6,181,873 |
| Refuse disposal | 3 | 3 | 3,934 |
| Water systems | 11 | 10 | 336,190 |
| Swimming pool | 4 | 4 | 1,232 |
| Power | 7 | 5 | 268,235 |
| **Subtotal** | 122 | 108 | 6,791,464 |
| **TRANSPORTATION** | | | |
| Rail | 10 | 8 | 283,937 |
| Truck | 5 | 5 | 6,003 |
| Barge or boat | 9 | 9 | 1,839 |
| Pipeline | 15 | 11 | 533,586 |
| **Subtotal** | 39 | 33 | 825,365 |
| **OTHER OPERATIONS** | 23 | 20 | 578,124 |
| **Total** | 438 | 379 | 14,826,214 |

## 5—Fish kill summary by type of water body

| TYPE OF WATER BODY | TOTAL REPORTS | REPORTED FISH KILLED | | EXTENT OF DAMAGE | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | NO. OF REPORTS | NO. OF FISH | MILES OF RIVER | | ACRES OF LAKE | | MILES OF SHORE | |
| | | | | NO. OF REPORTS | MILES | NO. OF REPORTS | ACRES | NO. OF REPORTS | MILES |
| River | 377 | 328 | 14,090,571 | 264 | 1,565 | — | — | — | — |
| Lake | 57 | 48 | 734,043 | — | — | 37 | 2,400 | — | — |
| Bay | 4 | 3 | 1,600 | — | — | — | — | 6 | 28 |
| Total | 438 | 379 | 14,826,214 | 264 | 1,565 | 37 | 2,400 | 6 | 28 |

NOTICE TO FISHERMEN-
THE MESS BENEATH YOU
FELT WAS ONCE OHIO'S
CLEANEST RIVER - IT HAD
TROUT BASS AND BEAUTY
LETS UNITE TO ENFORCE
POLLUTION LAWS NOW -
USE YOUR PHONE, WRITE
LETTERS, CARRY SIGNS -
GET THE JOB DONE !!

## 6—Fish kill summary by water type

| TYPE OF WATER | TOTAL REPORTS | REPORTED FISH KILLED | |
|---|---|---|---|
| | | NUMBER OF REPORTS | NUMBER OF FISH |
| Fresh | 409 | 353 | 9,869,851 |
| Salt | 6 | 4 | 1,888 |
| Estuary | 23 | 22 | 4,954,475 |
| Total | 438 | 378 | 14,826,214 |

## 7—Fish kill summary by month

| MONTH | REPORTED FISH KILLED | | |
|---|---|---|---|
| | TOTAL REPORTS | NUMBER OF REPORTS | NUMBER OF FISH |
| January | 20 | 15 | 765,819 |
| February | 14 | 12 | 88,854 |
| March | 18 | 17 | 68,894 |
| April | 24 | 23 | 320,467 |
| May | 23 | 17 | 80,127 |
| June | 43 | 33 | 211,333 |
| July | 80 | 71 | 1,607,403 |
| August | 61 | 51 | 1,984,450 |
| September | 73 | 67 | 3,381,566 |
| October | 56 | 52 | 5,204,124 |
| November | 14 | 12 | 1,049,570 |
| December | 7 | 6 | 16,312 |
| Not Stated | 5 | 3 | 47,295 |
| Total | 438 | 378 | 14,826,214 |

## 8—Severity of fish kills by duration

| DAYS | ALL REPORTS* | COMPLETE KILL | HEAVY KILL | MODERATE KILL | LIGHT KILL | NOT STATED |
|---|---|---|---|---|---|---|
| Less than 1 | 31 | 6 | 10 | 7 | 7 | 1 |
| 1 | 78 | 8 | 37 | 13 | 15 | 5 |
| 2 | 57 | 12 | 25 | 11 | 6 | 3 |
| 3 | 28 | 3 | 9 | 10 | 6 | — |
| 4 | 13 | 1 | 7 | 2 | 3 | — |
| 5 | 14 | 3 | 8 | 1 | — | 2 |
| 6 | 3 | 1 | 1 | — | 1 | — |
| 7 | 9 | — | 4 | 3 | 2 | — |
| 8 | 2 | 1 | — | — | 1 | — |
| 10 | 2 | 1 | 1 | — | — | — |
| 11 | 2 | 1 | — | 1 | — | — |
| 12 | 1 | — | — | 1 | — | — |
| 14 | 3 | — | 1 | 1 | 1 | — |
| 15 | 1 | 1 | — | — | — | — |
| 30 | 4 | 2 | 1 | — | 1 | — |
| 60 | 1 | 1 | — | — | — | — |
| Total | 249 | 41 | 104 | 50 | 43 | 11 |
| Average | 2.99 | 4.33 | 2.64 | 2.80 | 3.09 | 2.00 |

* Includes only reports which indicated duration of kill.

## 9—Fish kill summary by severity of kill

| SEVERITY OF KILL | TOTAL REPORTS | REPORTED FISH KILLED: NO. OF REPORTS | REPORTED FISH KILLED: NO. OF FISH | ESTIMATED NO. OF FISH KILLED** | AVERAGE KILL* |
|---|---|---|---|---|---|
| Complete kill | 53 | 48 | 768,491 | 802,000 | 6,795 |
| Heavy kill | 133 | 110 | 7,270,006 | 7,551,000 | 12,205 |
| Moderate kill | 85 | 71 | 345,319 | 385,000 | 2,840 |
| Light kill | 70 | 62 | 4,089,992 | 4,098,000 | 1,005 |
| Not stated | 97 | 88 | 2,352,476 | 2,400,000 | 5,295 |
| Total | 438 | 378 | 14,826,214 | 15,236,000 | 8,015 |

* Derived after excluding 31 reports of 100,000 kills or more as being unrepresentative.
** Includes all fish killed as reported plus an allowance for reports which do not indicate the number of fish that died.

## 10—Severity of fish kills by source of pollution

| SOURCE OF POLLUTION | ALL REPORTS | COMPLETE KILL | HEAVY KILL | MODERATE KILL | LIGHT KILL | NOT STATED |
|---|---|---|---|---|---|---|
| **Distribution by number** | | | | | | |
| Agricultural operations | 77 | 12 | 23 | 18 | 10 | 14 |
| Industrial operations | 177 | 25 | 45 | 38 | 28 | 41 |
| Municipal operations | 122 | 7 | 40 | 25 | 24 | 26 |
| Transportation operations | 39 | 4 | 18 | 3 | 3 | 11 |
| Other | 23 | 5 | 7 | 1 | 5 | 5 |
| Total | 438 | 53 | 133 | 85 | 70 | 97 |
| **Percentage Distribution** | | | | | | |
| Agricultural operations | 100.0 | 15.6 | 29.9 | 23.3 | 13.0 | 18.2 |
| Industrial operations | 100.0 | 14.1 | 25.4 | 21.5 | 15.8 | 23.2 |
| Municipal operations | 100.0 | 5.7 | 32.8 | 20.5 | 19.7 | 21.3 |
| Transportation operations | 100.0 | 10.2 | 46.2 | 7.7 | 7.7 | 28.2 |
| Other | 100.0 | 21.7 | 30.5 | 4.4 | 21.7 | 21.7 |
| Total | 100.0 | 12.1 | 30.4 | 19.4 | 16.0 | 22.1 |

## 11—Distribution of pollution source of fish kills by duration

| DAYS | ALL REPORTS* | AGRICULTURAL OPERATIONS | INDUSTRIAL OPERATIONS | MUNICIPAL OPERATIONS | TRANSPORTATION OPERATIONS | OTHER OPERATIONS |
|---|---|---|---|---|---|---|
| Less than 1 | 31 | 4 | 14 | 8 | 1 | 4 |
| 1 | 78 | 14 | 27 | 23 | 8 | 6 |
| 2 | 57 | 12 | 27 | 14 | 4 | — |
| 3 | 28 | 9 | 11 | 5 | 2 | 1 |
| 4 | 13 | 4 | 4 | 3 | 2 | — |
| 5 | 14 | 3 | 7 | 1 | 2 | 1 |
| 6 | 3 | — | 1 | — | 2 | — |
| 7 | 9 | 2 | 3 | 3 | 1 | — |
| 8 | 2 | — | — | 2 | — | — |
| 10 | 2 | 1 | — | — | 1 | — |
| 11 | 2 | — | 1 | 1 | — | — |
| 12 | 1 | — | — | 1 | — | — |
| 14 | 3 | 1 | 1 | — | 1 | — |
| 15 | 1 | — | — | 1 | — | — |
| 30 | 4 | 2 | 1 | — | — | 1 |
| 60 | 1 | — | — | — | — | 1 |
| Total | 249 | 52 | 97 | 92 | 24 | 14 |
| Average | 2.99 | 3.77 | 2.62 | 2.81 | 3.50 | 3.64 |

* Includes only reports which indicated duration of kill.

## REPORT OF POLLUTION CAUSED FISH KILLS

RIVER OR LAKE | CITY OR TOWN | DATE | CAUSE (SEE CODE BELOW) | TYPE: % GAME, % NON-GAME | COMMERCIAL FISH LOSS(%) | ESTIMATED FISH KILLED | SEVERITY: (1) Complete, (2) Heavy, (3) Moderate, (4) Light | ESTIMATED MILES OR ACRES AFFECTED | DURATION: DAY, HOUR

| | | |

# REPORT OF POLLUTION CAUSED FISH KILLS

| | RIVER OR LAKE | CITY OR TOWN | DATE | CAUSE (SEE CODE PAGE 11) | TYPE % GAME | TYPE % NON-GAME | COMMERCIAL FISH LOSS(%) | ESTIMATED FISH KILLED | SEVERITY Complete (1) | SEVERITY Heavy (2) | SEVERITY Moderate (3) | SEVERITY Light (4) | ESTIMATED MILES OR ACRES AFFECTED | DURATION DAY | DURATION HOUR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INDIANA | W FK WHITE RIVER | ANDERSON | 10 8 68 | 31 | 1% | 99% | - | 286 | | | 3 | | 1M | - | - |
| | MOOTS CREEK | BROOKSTON | 1 22 68 | 25 | 53% | 47% | - | 6,700 | | | 3 | | - | 2 | - |
| | LEATHERMAN BRANCH | CLINTON FALLS | 7 16 68 | 44 | - | - | - | - | | | | - | 15M | 1 | - |
| | BUCK CR-R BLUE R | DUNREITH | 1 1 68 | 41 | - | - | - | - | | 2 | | | 56M | 5 | - |
| | SO FK WILDCAT CR | FRANKFORT | 8 21 68 | 31 | 1% | 99% | - | 3,020 | | 2 | | | 3M | 7 | - |
| | HENDERSON CREEK | GNAW BONE | 6 25 68 | 42 | 96% | 6% | - | 72 | | | | 4 | - | - | - |
| | BRANDYWINE CREEK | GREENFIELD | 9 10 68 | 24 | 13% | 87% | - | 140 | | | 3 | | 1M | 3 | - |
| | WHITE RIVER | MUNCIE | 9 5 68 | 31 | 19% | 81% | - | 832 | | 2 | | | 3M | 1 | - |
| | BEAR CREEK | RIDGEVILLE | 9 30 68 | 13 | 63% | 37% | - | 262 | | 2 | | | 1M | - | - |
| | SIX MILL CREEK | SHIRLEY | 8 20 68 | 22 | - | - | - | - | | 2 | | | 7M | - | - |
| | RIPLEY CREEK | SUNMAN | 8 31 68 | 31 | - | - | - | - | | | | - | 5M | 1 | - |
| | RICHLAND CREEK | WHITEHALL | 9 4 68 | 13 | 8% | 92% | - | 84 | | | 3 | | 1M | 1 | - |
| | TURKEY CREEK | WINDFALL | 8 3 68 | 31 | 52% | 48% | - | 743 | | | | 4 | 4M | 1 | - |
| IOWA | DES MOINES RIVER | DES MOINES | 11 - 68 | 31 | 5% | 95% | - | 1,000,000 | | | | - | 40M | - | - |
| | DES MOINES RIVER | FARMINGTON | 7 21 68 | 31 | 0% | 100% | - | 700 | | | | 4 | 7M | 2 | - |
| | TIPTON CREEK | HUBBARD | 9 5 68 | 11 | 5% | 95% | - | 3,000 | | | 3 | | 2M | 2 | - |
| | IOWA RIVER | IOWA FALLS | 4 - 68 | 22 | 1% | 99% | - | 15,000 | | 2 | | | 8M | 2 | - |
| | FLOYD RIVER | SIOUX CITY | 7 - 68 | 24 | 2% | 98% | - | 25,000 | | 2 | | | 4M | - | - |
| | LITTLE SIOUX | SPENCER-LYNN GR | 11 - 68 | 31 | 5% | 95% | - | 25,000 | | 2 | | | 50M | - | - |
| KANSAS | DURECHAN CREEK | CASSODAY | 7 28 68 | 44 | 50% | 50% | 60% | 50,000 | 1 | | | | 15M | 6 | - |
| | COTTONWOOD RIVER | EMPORIA | 3 31 68 | 13 | 15% | 85% | 65% | 20,000 | | 2 | | | 2M | 1 | 12 |
| | KANSAS RIVER | EUDORA | 2 12 68 | 24 | 10% | 90% | 20% | 30,000 | | | | - | 20M | 2 | - |
| | COW CREEK | HUTCHINSON | 2 20 68 | 21 | 30% | 70% | 50% | 25,000 | | 2 | | | 9M | 4 | - |
| | SAND CREEK | NEWTON | 3 24 68 | 41 | 25% | 75% | 50% | 5,000 | | 2 | | | 10M | 6 | - |
| | SAND CREEK | NEWTON | 9 11 68 | 41 | 30% | 70% | 80% | 5,000 | | 2 | | | 8M | 2 | - |
| | S FK SOLOMON RIV | OSBORNE | 8 16 68 | 13 | 90% | 10% | 95% | 3,000 | | 2 | | | 12M | 2 | - |
| | E BR WILKMANS CR | TOWANDA | 4 20 68 | 44 | 20% | 80% | 30% | 3,000 | 1 | | | | 1M | 3 | - |
| | LIT ARKANSAS RIV | VALLEY CENTER | 9 19 68 | 28 | 50% | 50% | 75% | 206,000 | 1 | | | | 5M | 12 | - |
| | SLATE CREEK | WELLINGTON | 10 5 68 | 30 | 30% | 70% | 35% | 5,000 | | 2 | | | 2M | 1 | - |
| | OWL CREEK | YATES CENTER | 7 29 68 | 13 | 100% | 0% | 75% | 4,000 | | 2 | | | 8M | - | - |
| | SAND CREEK-TRIB | ZENDA | 3 3 68 | 44 | 10% | 90% | 30% | 12,000 | | 2 | | | 6M | 36 | - |
| KENTUCKY | DRAKE CREEK | FRANKLIN | 9 29 68 | 31 | 35% | 65% | 45% | - | 1 | | | | 10M | 8 | - |
| | MID FK-KENTUCKY R | HYDEN | " - 68 | 24 | 40% | 60% | - | - | 1 | | | | 6M | 1 | - |
| | YELLOW CREEK | MIDDLESBORO | 6 - 68 | 31 | 0% | 100% | - | 5,000 | 1 | | | | 6M | 1 | - |
| | RALEIGH CREEK | MONTICELLO | 6 - 68 | 21 | 0% | 100% | - | - | 1 | | | | 4M | - | - |
| LOUISIANA | BAYOU RAPIDES | ALEXANDRIA | 8 13 68 | 11 | 10% | 90% | - | 750 | | | 3 | | 8M | 3 | - |
| | BAYOU CHOCTAW | BATON ROUGE | 8 26 68 | 11 | 45% | 55% | - | 4,500 | | 2 | | | 5M | 5 | - |
| | NEW RIVER | GONZALES | 7 11 68 | 24 | 15% | 85% | - | 3,000 | 1 | | | | 6M | 2 | - |
| | BAY LONG-LK NATCZ | WHITE CASTLE | 8 16 68 | 11 | 40% | 60% | 25% | 2,500 | 1 | | | | 9M | 2 | - |
| MAINE | PRESTILE STREAM | EASTON | 8 28 68 | 12 | 10% | 90% | - | 2,000 | 1 | | | | 2M | 30 | - |
| | ANDROSCOGGIN RIV | LEWISTON-AUBURN | 7 22 68 | 23 | 0% | 100% | - | 5,000 | | 2 | | | 4M | 2 | - |
| | UNNAMED BROOK | TURNER | 5 7 68 | 11 | 99% | 1% | - | - | 1 | | | | 2M | 3 | - |
| | MEDOMAK RIVER | WALDOBORO | 10 14 68 | 22 | - | - | 100% | 10,000 | 1 | | | | 3M | 5 | - |
| MASSACHUSETTS | COCHITUATE RESRVR | COCHITUATE | 6 14 68 | 27 | 100% | 0% | - | 100 | | | 3 | | 5A | 1 | - |
| | CAPE COD CANAL | SANDWICH | 7 - 68 | 35 | 0% | 100% | 95% | - | | | 3 | | - | 11 | - |
| | CAPE COD CANAL | SANDWICH | 8 22 68 | 35 | 0% | 100% | 100% | - | | | 3 | | - | 12 | - |
| | SUDBURY RIVER | SUDBURY | 7 3 68 | 11 | 20% | 80% | - | - | | 2 | | | 5M | 3 | - |
| | LAKE DENISON | WINCHENDON | 7 10 68 | 11 | 100% | 0% | - | 1,000 | | | 3 | | 85A | 3 | - |
| MICHIGAN | COON CREEK | ARMADA | 10 26 68 | 25 | 10% | 90% | - | 11,660 | | 2 | | | - | - | - |
| | PIGEON RIVER | BORCULO | 5 11 68 | 22 | - | - | - | 425 | | | 3 | | - | - | - |
| | CASS RIVER | CARO | 10 4 68 | 22 | 1% | 99% | - | 2,400 | | | 3 | | - | - | - |
| | BLACK RIVER | CROSWELL | 7 24 68 | 22 | - | - | - | 200 | | | | 4 | - | - | - |
| | BLACK RIVER | CROSWELL | 9 28 68 | 22 | 11% | 89% | - | 72 | | | | 4 | - | - | - |
| | GRAND RIVER | GRAND RAPIDS | 8 30 68 | 31 | 20% | 80% | - | 500 | | | | 4 | 1M | 4 | - |
| | TITTABAWASSEE RIV | MIDLAND | 11 - 68 | 24 | 0% | 100% | - | 5,000 | | | 3 | | - | - | - |
| | BEAR RIVER | PETOSKEY | 10 30 68 | 31 | 1% | 99% | - | 25 | | | | 4 | - | - | - |
| | FRANKLIN DRAIN | PLYMOUTH | 8 6 68 | 32 | - | - | - | 150 | | | | 4 | - | - | - |
| | TROUT RIVER | SEC 16 T3SN R5E | 5 25 68 | 50 | 13% | 87% | - | 1,150 | | | | 4 | - | - | - |
| | PAINTERVILLE CR | SECS 35&36 T6S | 10 23 68 | 50 | - | - | - | - | | | | - | - | - | - |
| | ECORSE CREEK | WYANDOTTE | 6 18 68 | 31 | 0% | 100% | - | 25 | | | | 4 | - | - | - |
| MINNESOTA | BLUE EARTH RIVER | BLUE EARTH | 2 16 68 | 22 | 0% | 100% | - | 700 | | | 3 | | 2M | - | - |
| | CENTER CREEK | FAIRMONT | 1 20 68 | 31 | 20% | 80% | - | 2,000 | | | 3 | | 20M | - | - |
| | BUFFALO CREEK | GLENCOE | 7 16 68 | 22 | 0% | 100% | - | 350 | | | 3 | | 5M | - | - |
| | N BR ZUMBRO RIVER | KENYON | 8 23 68 | 31 | - | - | - | - | | | | 4 | 2M | - | - |
| | WATONWAN RIVER | MADELIA | 1 28 68 | 31 | 5% | 95% | - | 200 | | | | 4 | - | - | - |
| | SAUK RIVER | MELROSE | 7 3 68 | 31 | 20% | 80% | - | 3,600 | | | 3 | | 5M | - | - |
| | SAUK RIVER | MELROSE | 7 13 68 | 31 | - | - | - | - | | | 3 | | 4M | - | - |
| | ROOT RIVER | PRESTON | 4 16 68 | 22 | 10% | 90% | - | 50 | | | | 4 | 1M | - | - |
| | CROW RIVER | ROCKFORD | 6 21 68 | 22 | 25% | 75% | - | - | | | 3 | | 50M | - | - |
| | ROSEAU RIVER | ROSEAU | 1 15 68 | 31 | 0% | 100% | - | - | | | | 4 | 10M | - | - |
| MISSOURI | MIAMI CREEK | BUTLER | 7 6 68 | 33 | 30% | 70% | - | 150 | | | | 4 | 1M | - | - |
| | MILL CREEK | CADET | 6 8 68 | 24 | - | - | - | - | | 2 | | | 7M | 2 | - |
| | LITTLE TAVERN CR | CROCKER | 8 11 68 | 41 | - | - | - | - | | 2 | | | 8M | 7 | - |
| | PLATTIN CREEK | CRYSTAL CITY | 7 5 68 | 31 | 10% | 90% | - | 250 | | | | 4 | 1M | - | - |
| | DRY CREEK | HAYDEN | 10 28 68 | 44 | - | - | - | - | | 2 | | | 2M | 2 | - |
| | FOX RIVER | KAHOKA | " - 68 | 32 | 98% | 2% | - | 34 | | | 3 | | 1M | - | - |
| | DESENBERRY CREEK | LONG LANE | 11 3 68 | 44 | 20% | 80% | - | 3,500 | | 2 | | | 3M | - | - |
| | DEEPWATER CREEK | MONTROSE | 9 25 68 | 21 | 50% | 50% | - | 500 | | | 3 | | 1M | 1 | - |
| | LAKE LILLY | MOUNTAIN GROVE | 9 6 68 | 32 | 100% | 0% | - | 3,750 | | 2 | | | 3A | 1 | - |
| | OLD NISHNABOTNA R | PHELPS CITY | 5 13 68 | 32 | 3% | 97% | - | 3,000 | | 2 | | | 7M | 1 | - |

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| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | JIM CREEK | VIENNA | 1 1 68 | 44 | - | - | - | - | | | | | | 4M | - | - |
| | POST OAK CREEK | WARRENSBURG | 7 2 68 | 31 | 10% | 90% | - | | 2 | | | | | 2M | - | - |
| | WHITE OAK CREEK | WELLSVILLE | 6 25 68 | 24 | 20% | 80% | - | 500 | | | - | | | 2M | - | - |
| | ELKHORN CREEK | WELLSVILLE | 7 16 68 | 24 | 10% | 90% | - | 400 | | 3 | | | | 7M | 1 | - |
| | | | | | | | | 2,000 | 2 | | | | | 2M | 2 | - |
| MONTANA | WARM SPRINGS CR | ANACONDA | 12 24 68 | 11 | 100% | 0% | - | - | | | 4 | | | - | - | - |
| NEBRASKA | UNNAMED GRAVL PIT | CENTRAL CITY | 6 23 68 | 42 | 5% | 95% | - | 600 | 2 | | | | | 2A | 1 | - |
| | LAKE HASTINGS | HASTINGS | 1 1 68 | 35 | 100% | 0% | - | 5,000 | | 3 | | | | 3A | 7 | - |
| | NO FORK NEMEHA | HUMBOLDT | 7 14 68 | 31 | - | - | - | - | | | | | | - | - | - |
| | HAHN POND | JOHNSON | 7 24 68 | 13 | 100% | 0% | - | 900 | | 3 | - | | | - | - | - |
| | DRY CREEK | PLAINVIEW | 3 7 68 | 31 | 0% | 100% | - | 50 | 2 | | | | | 4A | 1 | - |
| | E BR VERDIGRE CR | ROYAL | 7 30 68 | 13 | 100% | 0% | - | 900 | | | 6 | | | 9M | 2 | - |
| | PEBBLE CREEK | SCRIBNER | 6 10 68 | 31 | 10% | 90% | 75% | - | 2 | | | | | 1A | - | 4 |
| NEVADA | INDIAN LAKES | FALLON | 5 17 68 | 11 | 80% | 20% | - | 2,000 | | | 4 | | | 18M | 2 | - |
| [illegible] | CRESCENT LAKE | ACWORTH-UNITY | 7 27 68 | 11 | 0% | 100% | - | 200 | | | 4 | | | 5M | 1A | 1 - |
| | SOUHEGAN RIVER | MERRIMACK | 1 29 68 | 24 | - | - | 100% | 3,000 | | | - | | | 50A | - | - |
| | [illegible]WATE POND | NEWTON | 6 24 68 | 11 | - | - | - | - | | | 4 | | | 1M | 1 | - |
| | CAI[illegible]BROOK | SEABROOK | 7 22 68 | 11 | 0% | 100% | - | 200 | | | 4 | | | 1A | 2 | - |
| NEW JERSEY | SEC NESHANIC RIV | FLEMINGTON | 10 24 68 | 22 | 0% | 100% | - | 1,000 | 1 | | | | | 1M | 2 | - |
| | WILLOW BROOK | HOLMDEL | 9 23 68 | 28 | 5% | 95% | - | 1,000 | 1 | | | | | 2M | 4 | - |
| | TRIB LEDGEWOOD BR | LEDGEWOOD | 10 18 68 | 50 | 0% | 100% | - | 300 | 1 | | | | | 1M | 1 | - |
| | TOMAHAWK POND | LINDCROFT | 7 26 68 | 12 | 0% | 100% | - | 250 | | 2 | | | | 1A | 1 | - |
| | WILLOW LAKE | LITTLE FERRY | 10 4 68 | 31 | 0% | 100% | - | 50,000 | | 2 | | | | 17A | 5 | - |
| | ROCKAWAY RIVER | PARSIPPANY-TROY | 10 21 68 | 31 | 0% | 100% | - | 200 | | | 3 | | | 5M | 2 | - |
| | MULMOCKAWAY CREEK | PATTENBURG | 8 7 68 | 50 | 5% | 95% | - | 500 | | 2 | | | | 1M | 1 | - |
| | POHATCONG CREEK | WASHINGTON | 7 16 68 | 24 | 0% | 100% | - | 400 | | | 3 | | | 1M | 1 | - |
| NEW MEXICO | PECOS RIVER | ARTESIA | 2 14 68 | 25 | 30% | 70% | - | 12,000 | | | 3 | | | 10M | - | 8 |
| | RUIDOSO CREEK | RUIDOSO | 6 30 68 | 31 | 65% | 35% | - | 1,000 | | | | 4 | | 2M | - | - |
| NEW YORK | GENESEE RIVER | AVON | 9 23 68 | 31 | 0% | 100% | - | - | | 2 | | | | 2M | 2 | - |
| | BUTTERNUT CREEK | DE WITT | 7 24 68 | 25 | 5% | 95% | - | 1,000 | | 2 | | | | 1M | - | 6 |
| | CANADAWAY CREEK | FREDONIA | 9 23 68 | 31 | 0% | 100% | - | 3,500 | | 2 | | | | 2M | - | - |
| | CRESCENT CREEK | LAKEWOOD | 4 11 68 | 33 | 1% | 99% | - | 2,000 | | 2 | | | | 1M | - | - |
| | MUD CREEK | NEW HARTFORD | 6 6 68 | 26 | 10% | 90% | - | 250 | | 2 | | | | 1M | - | - |
| | W BR TIOUGHNOGA R | PREBLE | 10 17 68 | 22 | 10% | 90% | - | 10,000 | | 2 | | | | 1M | - | - |
| | RED CREEK | RED CREEK | 7 18 68 | 22 | 0% | 100% | - | 55 | | | 3 | | | 2M | 1 | - |
| | TRUMANSBURG CREEK | TRUMANSBURG | 8 20 68 | 24 | 0% | 100% | - | 300 | | | - | | | 1M | - | - |
| | OATKA CREEK | WARSAW | 7 18 68 | 26 | 1% | 99% | - | 1,000 | | 3 | | | | 1M | - | - |
| | BLACK BROOK | WATERLOO | * - 68 | 22 | 0% | 100% | - | - | | | | | | - | - | - |
| | CHENANGO RIVER | WOODS CORNER | 8 1 68 | 27 | 0% | 100% | - | 3,000 | 2 | | | | | 2M | 3 | - |
| NORTH CAROLINA | TAR RIVER | GREENVILLE | 10 16 68 | 31 | 0% | 100% | 84% | 250 | 2 | | | | | 1M | - | - |
| | SLOCUM CREEK | HAVELOCK | 7 27 68 | 31 | 90% | 10% | - | 2,000 | | 2 | 4 | | | 10M | 1 | - |
| | SQUIRES RUN | RICHLANDS | 9 19 68 | 11 | 21% | 79% | 35% | 750 | | | - | | | 2M | 2 | - |
| | LIT CONTENTEA CR | SCHIFFLETON | 10 24 68 | 31 | 76% | 24% | 15% | 1,500 | 1 | | | | | 1M | 1 | - |
| | LITTLE RIVER | SPRING LAKE | 8 10 68 | 31 | 35% | 65% | 58% | 1,000 | | 3 | | | | 8M | 2 | - |
| | ROCKFISH CREEK | WALLACE | 7 11 68 | 50 | 45% | 55% | - | 20,000 | 2 | | | | | 8M | 2 | - |
| | SWIFT CREEK | WINTERVILLE | 9 17 68 | 31 | 5% | 95% | 70% | 1,000 | | | 4 | | | 40M | 5 | - |
| NORTH DAKOTA | SOURIS RIVER | TOWNER | 4 12 68 | 31 | 0% | 100% | - | 500 | 1 | | | | | 2M | 1 | - |
| OHIO | AUGLAIZE RIVER | ALLEN CO | 10 16 68 | 31 | - | - | - | - | | | | | | 7M | 15 | - |
| | LITTLE DARBY CR | CHAMPAIGN CO | 7 18 68 | 12 | - | - | - | 11 | | | | | | | | |
| | BUCK CREEK | CLARK CO | 4 23 68 | 28 | - | - | - | 566 | | | - | | | - | - | - |
| | TODDS FORK | CLINTON CO | 9 20 68 | 13 | - | - | - | 50 | | | | | | - | - | - |
| | COWAN CREEK | CLINTON CO | 10 18 68 | 13 | - | - | - | 3,575 | | | | | | - | - | - |
| | INDIAN CREEK | DARKE CO | 9 30 68 | 13 | - | - | - | 59 | | | | | | - | - | - |
| | TRIB ALUM CREEK | DELAWARE CO | 6 6 68 | 12 | - | - | - | 10 | | | | | | - | - | - |
| | SCIOTO RIVER | DELAWARE CO | 7 9 68 | 28 | - | - | - | 12,000 | | | | | | - | - | - |
| | PIPE CREEK | ERIE CO | 1 31 68 | 43 | - | - | - | 520 | | | | | | - | - | - |
| | SECOND CREEK | ERIE CO | 9 11 68 | 26 | - | - | - | 68 | | | | | | - | - | - |
| | RUSH CREEK | FAIRFIELD CO | 7 27 68 | 11 | - | - | - | 58 | | | | | | - | - | - |
| | SCIOTO RIVER | FRANKLIN CO | 4 10 68 | 41 | - | - | - | 444 | | | | | | - | - | - |
| | MASON RUN | FRANKLIN CO | 4 22 68 | 26 | - | - | - | 200 | | | | | | - | - | - |
| | ALUM CREEK | FRANKLIN CO | 7 5 68 | 31 | - | - | - | 1 | | | | | | - | - | - |
| | SCIOTO RIVER | FRANKLIN CO | 8 21 68 | 31 | - | - | - | 32,486 | | | | | | - | - | - |
| | SCIOTO-OLENTNGY R | FRANKLIN CO | 9 12 68 | 31 | - | - | - | 29,076 | | | | | | - | - | - |
| | SCIOTO-OLENTNGY R | FRANKLIN CO | 10 3 68 | 31 | - | - | - | 7 | | | | | | - | - | - |
| | SCIOTO RIVER | FRANKLIN CO | 10 24 68 | 31 | - | - | - | 10,612 | | | | | | - | - | - |
| | L MIAMI RIVER | GREENE CO | 7 30 68 | 31 | - | - | - | 700 | | | | | | - | - | - |
| | SHAWNEE CREEK | GREENE CO | 9 25 68 | 28 | - | - | - | 17 | | | | | | - | - | - |
| | LEATHERWOOD CREEK | GUERNSEY CO | 7 8 68 | 21 | - | - | - | 60 | | | | | | - | - | - |
| | BANKLICK CREEK | HAMILTON CO | 7 22 68 | 50 | - | - | - | 30 | | | | | | - | - | - |
| | OTTAWA CREEK | HANCOCK CO | 5 3 68 | 13 | - | - | - | 76 | | | | | | - | - | - |
| | BLANCHARD RIVER | HANCOCK CO | 8 28 68 | 31 | - | - | - | 5 | | | | | | - | - | - |
| | OIL DITCH | HANCOCK CO | 11 11 68 | 43 | - | - | - | 13,494 | | | | | | - | - | - |
| | CESSNA CREEK | HARDIN CO | 3 12 68 | 43 | - | - | - | 2 | | | | | | - | - | - |
| | HILLSBORO RESERVR | HIGHLAND CO | 6 8 68 | 28 | - | - | - | 484 | | | | | | - | - | - |
| | DOUGHTY CREEK | HOLMES CO | 8 7 68 | 22 | - | - | - | 29 | | | | | | - | - | - |
| | W BR HURON RIVER | HURON CO | 8 7 68 | 25 | - | - | - | 225 | | | | | | - | - | - |
| | E BR HURON RIVER | HURON CO | 9 4 68 | 31 | - | - | - | 195,426 | | | | | | - | - | - |
| | TRIB MARSH RUN | HURON CO | 9 10 68 | 11 | - | - | - | 13,946 | | | | | | - | - | - |
| | DITCH E BR HURON | HURON CO | 9 16 68 | 43 | - | - | - | 23,198 | | | | | | - | - | - |
| | BONNIE CREEK | HURON CO | 10 13 68 | 31 | - | - | - | 159 | | | | | | - | - | - |
| | CROSS CREEK | JEFFERSON CO | 9 11 68 | 21 | - | - | - | 10 | | | | | | - | - | - |
| | KOKOSING RIVER | KNOX CO | 9 4 68 | 41 | - | - | - | 3,135 | | | | | | - | - | - |
| | LAKE ERIE | LAKE CO | 9 11 68 | 28 | - | - | - | 70 | | | | | | - | - | - |
| | SO FK LICKING RIV | LICKING CO | 3 4 68 | 28 | - | - | - | 107 | | | | | | - | - | - |
| | LICKING RIVER | LICKING CO | 10 3 68 | 26 | - | - | - | 3 | | | | | | - | - | - |
| | MEANDER CREEK | MAHONING CO | 5 3 68 | 21 | - | - | - | 184,763 | | | | | | - | - | - |
| | SUGAR CREEK | MADISON CO | 7 15 68 | 11 | - | - | - | 57 | | | | | | - | - | - |
| | LIT SANDUSKY RIV | MARION CO | 4 3 68 | 24 | - | - | - | 65 | | | | | | - | - | - |
| | ROCKY RIVER | MEDINA CO | 7 12 68 | 31 | - | - | - | 26,944 | | | | | | - | - | - |
| | MUSKINGUM RIVER | MUSKINGUM CO | 8 25 68 | 23 | - | - | - | 933 | | | | | | - | - | - |
| | PORTAGE RIVER | OTTAWA CO | 6 7 68 | 26 | - | - | - | 186,068 | | | | | | - | - | - |
| | W BR MAHONING RIV | PORTAGE CO | 4 29 68 | 28 | - | - | - | 2,779 | | | | | | - | - | - |
| | W BR MAHONING RIV | PORTAGE CO | 7 20 68 | 26 | - | - | - | 305 | | | | | | - | - | - |
| | TR W BR MAHONING | PORTAGE CO | 10 29 68 | 41 | - | - | - | 34,777 | | | | | | - | - | - |
| | BLANCHARD RIVER | PUTNAM CO | 9 20 68 | 22 | - | - | - | 141 | | | | | | - | - | - |
| | OTTAWA RIVER | PUTNAM CO | 9 21 68 | 24 | - | - | - | 61,932 | | | | | | - | - | - |
| | | | | | | | | 11 | | | | | | - | - | - |

# REPORT OF POLLUTION CAUSED FISH KILLS

| | RIVER OR LAKE | CITY OR TOWN | DATE | CAUSE (SEE CODE PAGE 11) | TYPE % GAME | TYPE % NON-GAME | COMMERCIAL FISH LOSS(%) | ESTIMATED FISH KILLED | SEVERITY Complete (1) | SEVERITY Heavy (2) | SEVERITY Moderate (3) | SEVERITY Light (4) | ESTIMATED MILES OR ACRES AFFECTED | DURATION DAY | DURATION HOUR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OHIO | AUGLAIZE RIVER | PUTNAM CO | 9 22 68 | 24 | - | - | - | 12 | | | | - | - | - | - |
| | SANDUSKY RIVER | SANDUSKY CO | 1 2 68 | 35 | - | - | - | 250,585 | | | | - | - | - | - |
| | SANDUSKY RIVER | SANDUSKY CO | 9 19 68 | 22 | - | - | - | 1,516 | | | | - | - | - | - |
| | SANDUSKY RIVER | SANDUSKY CO | 12 24 68 | 35 | - | - | - | 3,000 | | | | - | - | - | - |
| | WILLOW CREEK | SENECA CO | 6 11 68 | 22 | - | - | - | 22 | | | | - | - | - | - |
| | LORAMIE CREEK | SHELBY CO | 9 5 68 | 50 | - | - | - | 893 | | | | - | - | - | - |
| | TURTLE CREEK | SHELBY CO | 10 12 68 | 13 | - | - | - | 119 | | | | - | - | - | - |
| | MELLYS CREEK | STARK CO | 6 11 68 | 43 | - | - | - | 10 | | | | - | - | - | - |
| | ILG POND | STARK CO | 7 21 68 | 31 | - | - | - | 191 | | | | - | - | - | - |
| | MOSQUITO CREEK | TRUMBULL CO | 6 14 68 | 28 | - | - | - | 6 | | | | - | - | - | - |
| | TUSCARAWAS RIVER | TUSCARAWAS CO | 8 16 68 | 21 | - | - | - | 23 | | | | - | - | - | - |
| | MILL CREEK | UNION CO | 10 10 68 | 31 | - | - | - | 1,479 | | | | - | - | - | - |
| | LATT DITCH-ST JOE | WILLIAMS CO | 8 5 68 | 43 | - | - | - | 572 | | | | - | - | - | - |
| | ROADDITCH-MITCHEL | WOOD CO | 7 8 68 | 43 | - | - | - | 6 | | | | - | - | - | - |
| | S BR PORTAGE RIV | WOOD CO | 9 13 68 | 22 | - | - | - | 1,578 | | | | - | - | - | - |
| | PORTAGE RIVER | WOOD CO | 9 18 68 | 31 | - | - | - | 12,540 | | | | - | - | - | - |
| | SYCAMORE CREEK | WYANDOT CO | 10 22 68 | 31 | - | - | - | 31 | | | | - | - | - | - |
| OKLAHOMA | JANSEN FARM POND | CORN-6 MILES SO | 4 11 68 | | 65% | 35% | - | 200 | | | 3 | | 2A | 7 | - |
| | SEC 21 1N 2W | ELMORE CITY | 2 - 68 | | 100% | 0% | - | 1,600 | 1 | | | | 16A | - | - |
| | LYNN WILEY F C LK | FOSTER | 2 - 68 | | 50% | 50% | - | 1,500 | | 2 | | | 8A | 7 | - |
| | CIMARRON RIVER | PERKINS-GUTHRIE | 1 18 68 | | 35% | 65% | 20% | 180,000 | | 2 | | | 90M | 4 | - |
| | UNNAMED POND | PERRY | 8 12 68 | | 100% | 0% | - | 250 | | | 3 | | 2A | 1 | 12 |
| | LAKE HOBART | ROCKY-1 MILE W | 4 14 68 | | 1% | 99% | - | 6,000 | | | | 4 | - | 4 | - |
| | BIG SALLISAW CR | SALLISAW | 9 1 68 | | 10% | 90% | - | - | | | 3 | | 1M | 2 | - |
| OREGON | IRRIGATION CANAL | ALMSVILLE | 9 27 68 | 13 | - | - | - | - | | | 3 | | 2M | 4 | - |
| | SHELL BEACH | COLUMBIA CITY | 3 20 68 | 24 | - | - | - | 50 | | | 3 | | 1M | - | 5 |
| | WALLOWA RIVER | ENTERPRISE | 8 4 68 | 12 | 100% | 0% | - | 300 | | 2 | | | 1M | - | - |
| | UMATILLA RIVER | PENDLETON | 9 - 68 | 28 | 95% | 5% | - | - | | | 3 | | 10M | - | - |
| | WILLAMETTE RIVER | PORTLAND-HARBOR | 2 16 68 | 43 | 5% | 95% | - | 500 | | | 3 | | 2A | 2 | - |
| | MILL CREEK | THE DALLES | 7 16 68 | 22 | 50% | 50% | - | 600 | 1 | | | | 2M | 2 | - |
| | BORROW PIT POND | WHITE CITY | 2 - 68 | 28 | 100% | 0% | - | 4,000 | 1 | | | | 5A | - | - |
| PENNSYLVANIA | CEDAR RUN | ALLENTOWN | 9 23 68 | 24 | 100% | 0% | - | 500 | | | 3 | | 2M | - | 2 |
| | TROUT CREEK | ALLENTOWN | 12 12 68 | 42 | 10% | 90% | - | 3,272 | | 2 | | | 2M | 1 | - |
| | MONOCACY CREEK | BATH | 9 24 68 | 22 | 74% | 26% | - | 403 | | | | 4 | 1M | - | 2 |
| | WEST SWAMP CREEK | BECHTELSVILLE | 8 23 68 | 50 | 100% | 0% | - | 250 | | | | 4 | 1M | 1 | - |
| | L KISHACOQUILA CR | BELLEVILLE | 4 5 68 | 13 | 95% | 5% | - | 334 | | 2 | | | 1M | 2 | - |
| | SAUCON CREEK | BETHLEHEM | 7 4 68 | 50 | 0% | 100% | - | 133 | | | | - | 2M | - | 12 |
| | BOWERS RUN | BIGLERVILLE | 9 16 68 | 22 | 78% | 22% | - | 5,054 | 1 | | | | 1M | 2 | - |
| | ALLEGHENY RIVER | BRUIN | 10 24 68 | 25 | 1% | 99% | - | 4,028,884 | | | | 4 | 55M | 7 | - |
| | SHY BEAVER CR | CHERRYTOWN | 9 13 68 | 44 | 50% | 50% | - | 193,794 | | 2 | | | 18M | 3 | - |
| | E BR OCTARORA CR | CHRISTIANA | 6 30 68 | 26 | 100% | 0% | - | 400 | | 2 | | | 1M | 1 | - |
| | TRIB RICHARDS RUN | CLYDE | 10 17 68 | 44 | 0% | 100% | - | 375 | | 2 | | | 5M | 1 | - |
| | N BR BLACKLICK CR | COLVER | 3 6 68 | 21 | 100% | 0% | - | 350 | | 2 | | | 2M | 2 | - |
| | FREDERICKS POND | CONYNGHAM | 9 - 68 | 50 | 25% | 75% | - | 2,261 | 1 | | | | 6A | 60 | - |
| | S BR SAUCON CREEK | COOPERSBURG | 6 17 68 | 34 | 55% | 45% | - | 300 | | 2 | | | 1M | - | 2 |
| | E BR BRANDYWNE CR | CUPOLA | 6 11 68 | 26 | 70% | 30% | - | 5,060 | | 2 | | | 3M | 1 | - |
| | E BR BRANDYWNE CR | CUPOLA | 6 22 68 | 26 | 70% | 30% | - | 5,101 | | 2 | | | 3M | 1 | - |
| | INDIAN CREEK | DANIELSVILLE | 5 23 68 | 33 | 100% | 0% | - | 10 | | | | 4 | 1M | - | 1 |
| | MAHONING CREEK | DANVILLE | 3 26 68 | 42 | 60% | 40% | - | 867 | | 2 | | | - | 1 | - |
| | DEEP RUN | DUBLIN | 7 1 68 | 22 | 95% | 5% | - | - | | 2 | | | 4M | - | 8 |
| | INDIAN CREEK | ELDRED | 10 8 68 | 44 | 50% | 50% | - | 2,000 | | | 3 | | 1M | - | 8 |
| | INDIAN RUN | EPHRATA | 12 21 68 | 13 | 100% | 0% | - | 490 | 1 | | | | 3M | 1 | 12 |
| | CROOKED RUN | FERNDALE | 8 1 68 | 41 | 100% | 0% | - | 177,000 | | 2 | | | 2M | 4 | - |
| | TRIB-COGLEY RUN | FERTIGS | 7 15 68 | 21 | 90% | 10% | - | 1,000 | | | 3 | | 3M | 1 | - |
| | S BR CODORUS CR | GLEN ROCK | 10 2 68 | 50 | 10% | 90% | - | 2,205 | 1 | | | | 1M | - | 2 |
| | DUNDERDALF CREEK | GRAND VALLEY | 4 23 68 | 25 | 50% | 50% | - | 50 | | | | 4 | 3M | 2 | - |
| | UNNAMED RUN | GREENSBURG | 9 12 68 | 25 | 0% | 100% | - | 5,000 | 1 | | | | 2M | 2 | 6 |
| | DARBY CREEK | HAVERFORD | 9 27 68 | 31 | 100% | 0% | - | 300 | 1 | | | | 2M | 2 | - |
| | TRIB TO OIL CREEK | HYDETOWN | 7 1 68 | 11 | 1% | 99% | - | 303 | | | | 4 | 2M | 1 | 12 |
| | TRIB TO CURRY RUN | INDIANA | 6 10 68 | 25 | 0% | 100% | - | 550 | | | | 4 | 4M | 3 | - |
| | MUDDY RUN CREEK | INTERCOURSE | 6 25 68 | 11 | 99% | 1% | - | 1,418 | 1 | | | | 3M | 2 | - |
| | E BR RED CLAY CR | KENNETT SQUARE | 5 17 68 | 28 | 5% | 95% | - | 3,150 | | | | 4 | 2M | - | 2 |
| | YELLOW BRFECHS CR | LISBURN | 12 8 68 | 11 | 100% | 0% | - | 12 | 1 | | | | 3M | 5 | - |
| | MIDDLE CREEK | MIDDLEBURG | 8 7 68 | 28 | 25% | 75% | - | 6,714 | | 2 | | | 4M | 2 | 12 |
| | SLOAT BROOK | MILFORD | 4 10 68 | 24 | 50% | 50% | - | 1,000 | | | | 4 | 2M | 2 | - |
| | SEELEY CREEK | MOSHERVILLE | 10 9 68 | 44 | 0% | 100% | - | 62,033 | 1 | | | | 3M | 1 | 12 |
| | MOUNTAIN CREEK | MOUNT HOLLY SPG | 6 21 68 | 23 | 100% | 0% | - | 2,000 | 1 | | | | 2M | - | 5 |
| | TULPEHOCKEN CREEK | MYERSTOWN | 4 9 68 | 24 | 100% | 0% | - | 336 | | 2 | | | 1M | 2 | - |
| | LEHIGH CANAL | NORTHAMPTON | 11 23 68 | 21 | 100% | 0% | - | 146 | | 2 | | | 1M | - | 3 |
| | OIL CREEK | OIL CITY | 10 9 68 | 24 | 75% | 25% | - | 3,500 | | 2 | | | 2M | 1 | - |
| | LAKE MARGUS | PENN RUN | 8 14 68 | 11 | 60% | 40% | - | 7,500 | | 2 | | | 8A | 1 | - |
| | PENNYPACK CREEK | PHILADELPHIA | 10 28 68 | 50 | 100% | 0% | - | 700 | | | | 4 | 1M | - | 4 |
| | FISHING CREEK | RED LION | 4 17 68 | 26 | 50% | 50% | - | 1,095 | | 2 | | | 6M | 1 | - |
| | MAHONING CREEK | SPORTSBURG | 8 13 68 | 31 | 1% | 99% | - | 2,500 | | | 3 | | 3M | 1 | - |
| | ALLEGHENY RIVER | TARENTUM | 8 5 68 | 21 | 90% | 10% | - | 3,000 | | | | 4 | 20M | 6 | - |
| | BUFFALO CREEK | TAYLORSTOWN | 9 29 68 | 13 | 45% | 55% | - | 450 | | | 3 | | 1M | 3 | - |
| | TEN MILE CREEK | TEN MILE | 7 19 68 | 28 | 80% | 20% | - | 1,488 | | 2 | | | 3M | 5 | - |
| | BEAVER CREEK | THORNDALE | 10 27 68 | 41 | 30% | 70% | - | 2,864 | | | 3 | | 3M | 1 | - |
| | HATCH RUN | WARREN | 7 8 68 | 11 | 5% | 95% | - | 1,000 | 1 | | | | 1M | - | 2 |
| | E BR L ANTIETAM C | WAYNESBORO | 10 1 68 | 28 | 10% | 90% | - | 2,397 | | | 3 | | 2M | 2 | - |
| | WEST VALLEY CREEK | WHITFORD | 4 14 68 | 23 | 100% | 0% | - | 102 | | | | 4 | 1M | 1 | - |
| | BR JUNIATA RIVER | WILLIAMSBURG | 7 24 68 | 23 | 90% | 10% | - | 1,200 | | | 3 | | 2M | - | 6 |
| | POORHOUSE RUN | YORK | 9 16 68 | 23 | 0% | 100% | - | 946 | 1 | | | | 1M | - | 6 |
| | INDIAN CREEK | ZIONSVILLE | 6 17 68 | 34 | 12% | 88% | - | 577 | | | 3 | | 1M | - | 4 |
| RHODE ISLAND | WOONASQUATUCKET R | SMITHFIELD | 6 19 68 | 28 | 50% | 50% | - | 5,000 | | | 3 | | 250A | 5 | - |
| | CAPRON POND | STILLWATER | 3 8 68 | 28 | 20% | 80% | - | 300 | | | 3 | | - | 14 | - |
| SOUTH CAROLINA | HUFF CREEK | GREENVILLE | 7 20 68 | 28 | 20% | 80% | - | 7,725 | 1 | | | | 3M | 1 | - |
| | GREAT PEE DEE RIV | WALLACE | 7 1 68 | 24 | 2% | 98% | 80% | 56,884 | 1 | | | | 31M | 2 | - |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SOUTH DAKOTA | RATTLE CREEK | KEYSTONE | 7 | 30 | 68 | 21 | 5% | 95% | - | 5,000 | 1 | | | | 4H | - | - |
| | RAPID CREEK | RAPID CITY | 6 | 22 | 68 | 31 | - | - | - | - | | 2 | | | 10M | - | - |
| | BIG SIOUX RIVER | SIOUX CITY | 7 | 7 | 68 | 11 | 0% | 100% | - | 100,000 | | 2 | | | 6M | 1 | - |
| TENNESSEE | CHICKAMAUGA RESVR | UNNAMED | 9 | 3 | 68 | 24 | 5% | 95% | - | 7,501 | | 2 | | | 10M | 5 | - |
| | BEAVER CREEK | BRISTOL | 10 | 10 | 68 | 22 | 0% | 100% | - | 675 | | | | 4 | 1M | - | 6 |
| | NICKAJACK RESERVR | CHATTANOOGA | 10 | 8 | 68 | 31 | 0% | 100% | - | 20,000 | | 2 | | | 5M | 1 | - |
| | WOLFPEVER CREEK | COLLEGEDALE | 6 | 12 | 68 | 22 | - | - | - | - | | | 3 | | - | - | - |
| | BEAVER CREEK | KNOXVILLE | 8 | 23 | 68 | 13 | 50% | 50% | - | 200 | | | 3 | | - | - | - |
| | TOWN CREEK | LEBANON | 9 | 12 | 68 | 41 | 33% | 67% | - | 93,662 | | 2 | | | 2M | 9 | - |
| | HOLICHUCKY RIVER | LOWLAND | 7 | 1 | 68 | 24 | 10% | 90% | - | - | | | 3 | | 4M | - | - |
| | LOOSAHATCHIE RIV | MEMPHIS | 5 | 10 | 68 | 24 | 20% | 80% | 26% | 5,000 | | | | - | 7M | 2 | - |
| | CUMBERLAND RIVER | NASHVILLE | 8 | 2 | 68 | 24 | 10% | 90% | - | 176,000 | | 2 | | | 32M | 4 | - |
| | EWING CREEK | NASHVILLE | 8 | 20 | 68 | 31 | 25% | 75% | - | 1,700 | | 2 | | | 1M | 2 | - |
| | CUMBERLAND RIVER | NASHVILLE | 10 | 17 | 68 | 31 | 5% | 95% | - | 7,000 | | | 3 | | 9M | 3 | - |
| | CROCKETT CREEK | ROGERSVILLE | 5 | 15 | 68 | 50 | 50% | 50% | - | - | | | | - | - | - | - |
| | MILL CREEK | SEVIER CO | 6 | 25 | 68 | 34 | 70% | 30% | - | 230 | | | 3 | | 1M | - | - |
| | BROADY POND | SEVIER CO | 7 | 11 | 68 | 11 | 100% | 0% | - | - | | 2 | | | 1A | 1 | - |
| | GISTS CREEK | SEVIERVILLE | 8 | 18 | 68 | 13 | 50% | 50% | - | 300 | | 2 | | | 2M | 1 | - |
| | TURNBULL CREEK | WHITE BLUFF | 6 | 18 | 68 | 33 | 70% | 30% | - | - | | | 3 | | - | - | - |
| TEXAS | COLORADO RIVER | AUSTIN | 11 | 18 | 68 | 31 | 5% | 95% | - | 500 | | | | 4 | 1M | 3 | - |
| | LAKE BALMORHEA | BALMORHEA | 7 | 16 | 68 | 11 | 94% | 6% | - | 685 | | | | 4 | 573A | 14 | - |
| | SCOTTS BAY | BAYTOWN | 9 | 10 | 68 | 31 | 5% | 95% | - | 1,000 | | | 3 | | 1M | 1 | - |
| | OLMITO S FISH HAT | BROWNSVILLE | 6 | 12 | 68 | 11 | 100% | 0% | - | 10,900 | 1 | | | | - | 1 | - |
| | GULF OF MEXICO | CAPLEN | 2 | 15 | 68 | 25 | 0% | 100% | - | - | | | | 4 | 2M | 1 | - |
| | RED RIVER | CAREY | 5 | 28 | 68 | 25 | 2% | 98% | - | - | | 2 | | | 50M | 5 | - |
| | NUECES RIVER | CARRIZO SPRINGS | 10 | - | 68 | 22 | 50% | 50% | - | - | | | | 4 | 1M | 1 | - |
| | CORPUS CHRSTI BAY | CORPUS CHRISTI | 10 | 28 | 68 | 50 | 0% | 100% | - | 100 | | | | 4 | - | - | - |
| | NUECES RIVER | CRYSTAL CITY | 9 | 7 | 68 | 11 | 10% | 90% | - | 1,000 | | | | - | 1M | 2 | - |
| | LAKE MADELINE | GALVESTON | 3 | 6 | 68 | 31 | 100% | 0% | - | 1,500 | | | | 4 | - | 1 | - |
| | OFFATTS BAYOU | GALVESTON | 8 | 22 | 68 | 31 | 0% | 100% | - | 250 | | | | 4 | - | 3 | - |
| | GEORGES CREEK | GLEN ROSE | 8 | 5 | 68 | 28 | - | - | - | - | | 2 | | | 1M | - | - |
| | PECOS RIVER | GRANDFALLS | 5 | 28 | 68 | 28 | 0% | 100% | - | - | | 2 | | | 2M | 5 | - |
| | EAGLETON CREEK | MARLETON | 10 | 15 | 68 | 25 | - | - | - | - | | 2 | | | 4M | - | - |
| | WICHITA RIVER | IOWA PARK | 1 | 25 | 68 | 44 | - | - | - | - | | 2 | | | - | 10 | - |
| | PECOS RIVER | IRAAN-SHEFFIELD | 11 | - | 68 | 50 | 50% | 50% | - | - | | 2 | | | 70M | 30 | - |
| | HARREGAS LAKE | KINGSVILLE | 3 | 12 | 68 | 24 | 10% | 90% | - | 5,000 | | | 3 | | - | - | - |
| | CYPRIS CREEK | KOUNTZE | 7 | 17 | 68 | 28 | 50% | 50% | - | - | | 2 | | | - | - | - |
| | HOUSTON SHIP CHNL | MORGANS POINT | 9 | 18 | 68 | 31 | 10% | 90% | 50% | 30,000 | | 2 | | | 3M | 2 | - |
| | PAPALOTE CREEK | PAPALOTE | 9 | 5 | 68 | 25 | 0% | 100% | - | 1,000 | | | | 4 | 1M | 1 | - |
| | LAVACA BAY | PORT LAVACA | 12 | 19 | 68 | 43 | 0% | 100% | - | 38 | | | | 4 | 1A | - | - |
| | SAN ANTONIO RIVER | SAN ANTONIO | 10 | 8 | 68 | 31 | 10% | 90% | - | 1,000 | | | | 4 | - | - | - |
| | FOSTER CREEK | SCHULENBURG | 4 | 2 | 68 | 11 | 75% | 25% | - | 200 | | | 3 | | 1M | 2 | - |
| | ROCKY CREEK | SHINER | 3 | 9 | 68 | 31 | 100% | 0% | - | 1,000 | | | 3 | | 5M | 3 | - |
| | MOSES LAKE | TEXAS CITY | 6 | 20 | 68 | 24 | 2% | 98% | 95% | - | | | 3 | | - | 3 | - |
| | INDUSTRIAL CANAL | TEXAS CITY | 7 | 17 | 68 | 25 | 1% | 99% | 99% | 300 | | | | 4 | 1M | 1 | - |
| | NOODLE CREEK | TRENT | 2 | 1 | 68 | 13 | - | - | - | - | 1 | | | | 9M | 30 | - |
| | UNNAMED POND | TRINITY | 6 | 25 | 68 | 23 | 100% | 0% | - | 3,000 | 1 | | | | - | 3 | - |
| | JOE FLEMING LAKE | TYLER | 3 | - | 68 | 25 | 100% | 0% | - | - | | | | 4 | - | 30 | - |
| | GOLDEN ROD CREEK | YOAKUM | 11 | - | 68 | 44 | 50% | 50% | - | 1,000 | | | | 4 | - | - | - |
| UTAH | PRICE RIVER | CASTLEGATE | 3 | 1 | 68 | 35 | 15% | 85% | - | 190 | | 2 | | | - | 1 | - |
| | UTAH LAKE | OREM | 9 | 1 | 68 | 21 | 90% | 10% | 10% | 10,854 | | 2 | | | - | 1 | - |
| | UTAH LAKE | PROVO | 1 | 11 | 68 | 26 | 75% | 25% | - | 60 | | | | 4 | - | - | - |
| | UTAH LAKE | PROVO | 2 | 28 | 68 | 26 | 95% | 5% | - | 54 | | | | 4 | - | - | - |
| | SMITHFIELD CREEK | SMITHFIELD | 7 | 17 | 68 | 50 | 75% | 25% | - | 300 | 1 | | | | 7M | - | 6 |
| VIRGINIA | TOMS CREEK | BLACKSBURG | 10 | 4 | 68 | 25 | 20% | 80% | 18% | 1,410 | | | | - | 3M | - | - |
| | FALLING CREEK | CHESTERFIELD CO | 7 | 5 | 68 | 31 | 62% | 38% | 4% | 1,200 | | | | 4 | 1M | - | - |
| | JAMES RIVER | CHESTERFIELD CO | 7 | 11 | 68 | 31 | 15% | 85% | - | 13,004 | | | 3 | | 3M | - | - |
| | JAMES RIVER | CHESTERFIELD CO | 7 | 27 | 68 | 31 | 80% | 20% | 20% | 100,000 | | 2 | | | 3M | - | - |
| | JAMES RIVER | CHESTERFIELD CO | 8 | 13 | 68 | 31 | 6% | 94% | - | 16,000 | | | 3 | | 3M | - | - |
| | GREGORYS POND | FALLING CREEK | 11 | 25 | 68 | 21 | 76% | 24% | - | 2,922 | | | | - | 80A | - | - |
| | MILL CREEK | GALAX | 11 | 25 | 68 | 26 | 10% | 90% | 40% | - | | | | - | - | - | - |
| | MAURY RIVER | GLASGOW | 7 | 11 | 68 | 24 | 100% | 0% | - | 3,000 | | | | 4 | 2M | - | - |
| | MAURY RIVER | GLASGOW | 7 | 12 | 68 | 24 | 90% | 10% | - | 2,000 | | | | 4 | 2M | - | - |
| | SOUTH ANNA RIVER | GORDONSVILLE | 10 | 25 | 68 | 31 | 42% | 58% | 35% | 47,230 | | | | - | 22M | - | - |
| | MEHERRIN RIVER | GREENSVILLE CO | 9 | 27 | 68 | 31 | 30% | 70% | 13% | 33,440 | | | | - | 3M | - | - |
| | BLACKWATER CREEK | LYNCHBURG | 10 | 1 | 68 | 31 | 17% | 83% | 5% | 60 | | | | - | 1M | - | - |
| | APPOMATTOX RIVER | PETERSBURG | 10 | 1 | 68 | 31 | 5% | 95% | - | 101,463 | | | | - | 1M | - | - |
| | DITCH TO BACK BAY | PRINCESS ANN CO | 5 | 24 | 68 | 11 | 84% | 16% | - | 1,200 | | | | - | 1A | - | - |
| | JAMES R-PROCTR CR | RICHMOND | 10 | 7 | 68 | 25 | 97% | 3% | - | 1,580 | | | | - | 1M | - | - |
| | BACK CREEK | NR STARKEY | 3 | 9 | 68 | 31 | 19% | 81% | 27% | 10,250 | | 2 | | | 4M | - | - |
| | E V WILLIAMS LAKE | VIRGINIA BEACH | 7 | 28 | 68 | 31 | - | - | 100% | 2,000 | | | 3 | | 7A | - | - |
| WASHINGTON | PRIVATE POND | POULSBO | 6 | 6 | 68 | 11 | 0% | 100% | - | 50 | | 2 | | | 2A | - | - |
| | BOEING CREEK-LAKE | SEATTLE | 10 | 25 | 68 | 25 | 100% | 0% | - | 2 | | | | 4 | 1A 1M | - | 1 |
| | PILCHUCK RIVER | SNOHOMISH | 1 | 7 | 68 | 33 | 95% | 5% | 33% | 79,000 | | 2 | | | 3M | - | 6 |
| WEST VIRGINIA | GLADE CREEK | BECKLEY | 2 | 24 | 68 | 33 | 50% | 50% | - | 500 | | | 3 | | 1M | 7 | - |
| | KANAWHA RIVER | BELLE | 8 | 7 | 68 | 24 | 10% | 90% | - | 41,500 | | 2 | | | - | - | - |
| | WHITEDAY CREEK | FAIRMONT | 9 | 12 | 68 | 50 | 5% | 95% | - | 300 | | 2 | | | 2M | - | - |
| | DUNKARD CREEK | MORGANTOWN | 8 | 6 | 68 | 21 | 35% | 65% | - | 5,000 | | | | - | - | - | - |
| | OHIO RIVER | NEW CUMBERLAND | 12 | 16 | 68 | 35 | 1% | 99% | - | 9,500 | | | | 4 | 1M | 4 | - |
| | SALT LICK | TERRA ALTA | 9 | 25 | 68 | 25 | 5% | 95% | - | 4,000 | 1 | | | | 2M | - | - |
| | OHIO RIVER | WHEELING | 2 | 29 | 68 | 26 | 2% | 98% | - | 10,000 | | | 3 | | 50M | 3 | - |
| WISCONSIN | YAHARA RIVER | DE FOREST | 7 | 9 | 68 | 31 | 0% | 100% | - | 75 | | 2 | | | 5M | 2 | - |
| | LITTLE WOLF RIVER | GALLOWAY | 7 | 16 | 68 | 11 | 40% | 60% | - | 1,000 | 1 | | | | 2M | - | - |
| | CEDAR CREEK | JACKSON | 9 | 16 | 68 | 22 | 10% | 90% | - | 5,000 | | 2 | | | 7M | - | - |
| | CAWLEY CREEK | LOYAL | 6 | 30 | 68 | 22 | 10% | 90% | - | - | | 2 | | | 3M | 4 | - |
| | LITTLE PLOVER | PLOVER | 8 | 11 | 68 | 11 | 95% | 5% | - | 4,400 | | 2 | | | 4M | - | - |
| | SIX MILE CREEK | WAUNAKEE | 8 | 4 | 68 | 22 | 33% | 67% | - | 286 | | | | - | 5M | 5 | - |
| WYOMING | ENCAMPMENT RIVER | RIVERSIDE | 7 | 27 | 68 | 21 | 98% | 2% | - | 250 | | 2 | | | 2M | 1 | - |

# REPORT OF FISH KILLS—CAUSE UNKNOWN

| | RIVER OR LAKE | CITY OR TOWN | DATE | CAUSE UNKNOWN | TYPE % GAME | TYPE % NON-GAME | COMMERCIAL FISH LOSS(%) | ESTIMATED FISH KILLED | SEVERITY (1) Complete | (2) Heavy | (3) Moderate | (4) Light | ESTIMATED MILES OR ACRES AFFECTED | DURATION DAY | DURATION HOUR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CALIFORNIA | SANTA ANA RIVER | HUNTINGTON BCH | 5 29 68 | 90 | 99% | 1% | 1% | 5,000 | | | 3 | | 2M | 25 | - |
| | E HIGHLINE CANAL | NILAND | 6 25 68 | 90 | 99% | 1% | - | 3,000 | | | | - | 5M | 3 | - |
| CONNECTICUT | THAMES RIVER | NORWICH | 5 2 68 | 90 | 1% | 99% | - | 6,500 | | | 3 | | - | - | - |
| FLORIDA | NO NEW RIVER CANL | TERRYTOWN | 1 3 68 | 90 | 50% | 50% | - | 4,000 | | | | 4 | 35M | 5 | - |
| GEORGIA | WITHLACOOCHEE RIV | ADEL | 1 30 68 | 90 | 90% | 10% | - | 40 | | | | 4 | 1M | - | - |
| HAWAII | AIEA STREAM | AIEA | 8 10 68 | 90 | 0% | 100% | - | 5,000 | | | 3 | | 1M | - | - |
| | KAPALAMA DRN CANL | HONOLULU | 8 10 68 | 90 | 50% | 50% | - | 10,000 | | | 3 | | 1M | 1 | - |
| | KUMUMANU CANAL | HONOLULU | 7 9 68 | 90 | 90% | 10% | 15% | 5,000 | | 2 | | | 2M | 2 | - |
| | ULEHAWA STREAM | WAIAKULI | 4 14 68 | 90 | 90% | 10% | - | 3,250 | | 2 | | | 2M | 1 | - |
| ILLINOIS | S BR KISHWAUKEE R | SYCAMORE | 3 20 68 | 90 | 4% | 96% | 96% | 17,358 | | | 3 | | 15M | - | - |
| IOWA | LITTLE SIOUX RIV | ANTHON | 6 7 68 | 90 | 2% | 98% | - | 2,000 | | | 3 | | 15M | - | 15 |
| | BIG SIOUX RIVER | SIOUX CITY | 6 7 68 | 90 | 20% | 80% | - | 2,000 | | 2 | | | 10M | 1 | - |
| KANSAS | SOLOMON RIVER | MINNEAPOLIS | 6 8 68 | 90 | 50% | 50% | 50% | 9,000 | | | 3 | | 50M | 3 | - |
| | WHITE ROCK CREEK | REPUBLIC | 7 28 68 | 90 | 1% | 99% | 2% | 600 | | | | 4 | 1M | 1 | - |
| | LIT ARKANSAS RIV | SEDGWICK | 7 15 68 | 90 | 5% | 95% | 15% | 3,000 | | 2 | | | 1M | 3 | - |
| | WHITEWATER RIVER | TOWANDA | 10 16 68 | 90 | 30% | 70% | 40% | 10,000 | | | 3 | | 1M | 2 | - |
| KENTUCKY | CLOVER FK-CUMBRLD | HARLAN | 2 20 68 | 90 | 20% | 80% | - | - | | 2 | | | 2M | 1 | - |
| | ELK FORK CREEK | WEST LIBERTY | 8 1 68 | 90 | - | - | - | - | | | | - | 15M | 1 | - |
| LOUISIANA | COMITE RIVER | DEERFORD | 9 9 68 | 90 | 50% | 50% | 25% | - | | 2 | | | 10M | 1 | - |
| | VERMILLION RIVER | LAFAYETTE | 9 10 68 | 90 | 0% | 100% | 50% | - | | | | 4 | 30M | - | - |
| | BAYOU BREAUX | SAINT GABRIEL | 11 14 68 | 90 | 30% | 70% | 10% | - | | 2 | | | 2M | - | - |
| MASSACHUSETTS | WESTFIELD R-MAIN | WESTFIELD | 8 7 68 | 90 | 1% | 99% | - | 10,000 | | 2 | | | 3M | 2 | - |
| MISSOURI | OTTER CREEK | GRANVILLE | 8 21 68 | 90 | 25% | 75% | - | 1,285 | | 2 | | | 1M | - | - |
| | BUFFALO CREEK | LOUISIANA | 8 22 68 | 90 | - | - | - | 500 | | | | 4 | 1M | - | - |
| MONTANA | WARM SPRINGS CR | ANACONDA | 7 15 68 | 90 | 100% | 0% | - | 700 | | 2 | | | 3M | 1 | - |
| NEBRASKA | SO FK NEMAHA RIV | DAWSON | 6 2 68 | 90 | 5% | 95% | - | 1,000 | | | | 4 | 1M | - | - |
| | WOOD RIVER | GRAND ISLAND | 9 29 68 | 90 | 0% | 100% | - | - | | | 3 | | - | - | - |
| | WEST FK BLUE RIV | MCCOOL JUNCTION | 6 23 68 | 90 | 5% | 95% | - | 1,500 | | 2 | | | 3M | - | 6 |
| NEW HAMPSHIRE | SUNAPEE LAKE | NEW LONDON | 5 1 68 | 90 | 100% | 0% | - | 5,000 | | | 3 | | 4085A | 2 | - |
| NEW JERSEY | CREAM RIDGE POND | ALLENTOWN | 8 15 68 | 90 | 15% | 85% | - | 205 | | 2 | | | 2A | 1 | - |
| | BRAINERD LAKE | CRANBURY | 7 16 68 | 90 | 0% | 100% | - | 500 | | | 3 | | - | 1 | - |
| | GOLD RUN | EWINGVILLE | 11 7 68 | 90 | 0% | 100% | - | 2,000 | 1 | | | | 3A | 1 | - |
| | MILLSTONE RIVER | MANVILLE | 7 22 68 | 90 | 10% | 90% | - | 2,000 | | 2 | | | 10M | 2 | - |
| | SUNNY JIM POND | MEDFORD | 7 20 68 | 90 | 0% | 100% | - | - | | 2 | | | 2A | 1 | - |
| | STRAWBRIDGE LAKE | MOORESTOWN | 8 10 68 | 90 | 0% | 100% | - | 500 | | 2 | | | 22A | 1 | - |
| | COLLARDS POND | PISCATAWAY | 7 26 68 | 90 | 0% | 100% | - | 50 | | | 3 | | 1M | 1 | - |
| | RAHWAY RIVER | RAHWAY | 8 31 68 | 90 | 1% | 99% | - | 50 | | | 3 | | 1M | 1 | - |
| | WOODBURY LAKE | WOODBURY | 7 16 68 | 90 | 0% | 100% | - | 14 | | | | 4 | - | 1 | - |
| NEW YORK | SIX MILE CREEK | ITHACA | 4 23 68 | 90 | 2% | 98% | - | 2,000 | | 2 | | | 1M | - | - |
| | CHADAKOIN RIVER | JAMESTOWN | 5 13 68 | 90 | 2% | 98% | - | 500 | | | | - | 1M | - | - |
| | CHENANGO RIVER | OXFORD | 7 15 68 | 90 | 10% | 90% | - | 3,000 | | 2 | | | 2M | - | - |
| | CASPER CREEK | POUGHKEEPIE | 4 - 68 | 90 | 0% | 100% | - | - | | | | - | 4M | - | - |
| | WAWAYANDA CREEK | WARWICK | 4 18 68 | 90 | 10% | 90% | - | 400 | | 2 | | | 1M | - | - |
| NORTH CAROLINA | SANDY CREEK | RAMSEUR | 10 5 68 | 90 | 17% | 83% | 35% | 200 | | | | 4 | 1M | - | - |
| OHIO | ASHTABULA RIVER | ASHTABULA CO | 6 12 68 | 90 | - | - | - | 2,110 | | | | - | - | - | - |
| | GR MIAMI RIVER | BUTLER CO | 8 26 68 | 90 | - | - | - | 635 | | | | - | - | - | - |
| | STILL FORK CREEK | CARROLL CO | 9 16 68 | 90 | - | - | - | 238 | | | | - | - | - | - |
| | N FK MID BEAVER | COLUMBIANA CO | 5 24 68 | 90 | - | - | - | 6 | | | | - | - | - | - |
| | MID FK BEAVER CR | COLUMBIANA CO | 6 17 68 | 90 | - | - | - | 350 | | | | - | - | - | - |
| | MID FK LIT BEAVER | COLUMBIANA CO | 9 10 68 | 90 | - | - | - | 12 | | | | - | - | - | - |
| | COLD CREEK | COLUMBIANA CO | 10 8 68 | 90 | - | - | - | 19 | | | | - | - | - | - |
| | BULL CREEK | COLUMBIANA CO | 10 10 68 | 90 | - | - | - | 7 | | | | - | - | - | - |
| | SANDUSKY RIVER | CRAWFORD CO | 7 15 68 | 90 | - | - | - | 2,380 | | | | - | - | - | - |
| | ALUM CREEK | FRANKLIN CO | 7 8 68 | 90 | - | - | - | 15 | | | | - | - | - | - |
| | SCIOTO RIVER | FRANKLIN CO | 9 6 68 | 90 | - | - | - | 227 | | | | - | - | - | - |
| | ALUM CREEK | FRANKLIN CO | 9 7 68 | 90 | - | - | - | 115 | | | | - | - | - | - |
| | ALUM CREEK | FRANKLIN CO | 11 6 68 | 90 | - | - | - | 14 | | | | - | - | - | - |